

IMPROVED CONFIDENCE INTERVALS FOR THE RATIO  
OF THE VARIANCES AND STANDARD DEVIATIONS  
FROM TWO NORMAL POPULATIONS

Jeffrey Warren Clouse





# NAVAL POSTGRADUATE SCHOOL

## Monterey, California



# THESIS

Improved Confidence Intervals for  
the Ratio of the Variances and  
Standard Deviations from Two  
Normal Populations

by

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Characteristics and improved performance of the alternative confidence intervals are discussed in detail and illustrated graphically, with an emphasis on the optimal distribution of complementary tail area between the upper and lower tails.





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of the Variances and Standard Deviations  
from Two Normal Populations

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## ABSTRACT

Shortest confidence intervals for the ratio of two variances of normal populations are found as superior alternatives to the widely used equal tail confidence intervals. Extensive tables of high precision are presented which enable the user to easily construct shortest confidence intervals for the ratio of two variances, the ratio of two standard deviations and the shortest unbiased confidence interval for the ratio of two variances. Characteristics and improved performance of the alternative confidence intervals are discussed in detail and illustrated graphically, with an emphasis on the optimal distribution of complementary tail area between the upper and lower tails.



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## I. INTRODUCTION

### A. PURPOSE

The purpose of this thesis is to provide tables to facilitate the construction of optimal confidence intervals for the ratio of the variances of random samples drawn from two independent normal populations. This thesis also discusses the characteristics of these intervals. The discussion is restricted to the classes of confidence intervals which are computed from the sums of the squared deviations of the observations from their means.

Scheffé [2] studied analytic properties of this question in 1942. This thesis is an application-oriented extension of his work.

### B. BACKGROUND

The classical method of constructing confidence intervals for the ratio of two variances from normal populations consists of splitting the tails of the appropriate F distribution evenly. One might conjecture that this method has survived through time because of the availability of published F distribution tables, the simplicity of its computation and its resemblance to other evenly split tail schemes. Indeed, when the degrees of freedom of the F distribution are sufficiently large, the classical method yields adequate results for most applications. When the degrees of freedom are small, however, this method results in confidence intervals which are much larger than is necessary.





This thesis describes three classes of confidence intervals which are shorter than the classical ones. Characteristics associated with the shortest intervals are examined in detail and illustrated graphically.

#### C. IMPROVED CONFIDENCE INTERVALS

Three notions of optimality are treated herein; minimum length for the ratio of variances, minimum length for the ratio of standard deviations and shortest unbiased confidence intervals which Scheffé has shown to be the same criterion as the minimum of the logarithm of the ratio of the variances. These choices are natural, but arbitrary. Other choices could be made also. It is reasonable to assume, however, that the practitioner will prefer a shorter interval to a longer one, and that he will prefer an unbiased one. This thesis concerns itself with finding and recording values with which these classes of optimal confidence intervals can be constructed.

#### D. CONTENTS OF THESIS

This thesis is divided into four sections. Section I is the introduction. Section II contains the discussion of the statistical statement of the problem and the mathematical solution to it. Section III discusses the accuracy of the tabled values found in Appendix A. These values are the solutions to the optimal length confidence interval problem. Section IV contains conclusions on properties of these intervals along with guidelines for practitioners in applying them.



There are also three appendices. Appendix A contains the tabled values which can be used to construct the shortest length confidence intervals. Appendix B contains graphs of situations illustrating various properties of the criteria chosen. Finally, Appendix C contains the algorithm and the mathematical derivations used in computing the optimal values tabled in Appendix A.



## II. DISCUSSION OF LOGIC AND METHODOLOGY

### A. MINIMUM LENGTH CONFIDENCE INTERVALS FOR THE RATIO OF TWO VARIANCES AND TWO STANDARD DEVIATIONS

Assume that  $\{X_1, X_2, \dots, X_{M+1}\}$  and  $\{Y_1, Y_2, \dots, Y_{N+1}\}$  are two independent random samples from normal populations. The number of observations in each sample is  $M+1$  and  $N+1$  respectively.

Let  $\gamma$  be an arbitrary level of confidence. It is bounded below by 0 and above by 1.  $S_{XX}$  and  $S_{YY}$  are defined as

$$S_{XX} = \sum_{i=1}^{M+1} (X_i - \bar{X})^2$$

$$S_{YY} = \sum_{i=1}^{N+1} (Y_i - \bar{Y})^2$$

where

$$\bar{X} = \frac{\sum_{i=1}^{M+1} X_i}{M+1} \quad \text{and} \quad \bar{Y} = \frac{\sum_{i=1}^{N+1} Y_i}{N+1}$$

are the sample means. Let

$$s_x^2 = \frac{S_{XX}}{M} \quad \text{and} \quad s_y^2 = \frac{S_{YY}}{N}$$

Under these assumptions, it is well known that the statistic





$$\frac{s_x^2}{\sigma_x^2} \bigg/ \frac{s_y^2}{\sigma_y^2}$$

is an 'F' random variable with M and N degrees of freedom.<sup>1</sup>

To construct a confidence interval for  $\sigma_y^2/\sigma_x^2$ , two numbers C1 and C2 are chosen such that

$$\int_{C1}^{C2} h_{M,N}(x) dx = \gamma$$

where  $h_{M,N}(x)$  is the F probability density function. Once these values are selected, they are substituted into the probability statement

$$P(C1 \leq \frac{s_x^2}{\sigma_x^2} \bigg/ \frac{s_y^2}{\sigma_y^2} \leq C2) = \gamma$$

Manipulating through algebra within the parenthesis, one obtains

$$P\left(\frac{s_y^2}{s_x^2} \cdot C1 \leq \frac{\sigma_y^2}{\sigma_x^2} \leq \frac{s_y^2}{s_x^2} \cdot C2\right) = \gamma$$

This expression yields the desired confidence interval

$$\left(\frac{s_y^2}{s_x^2} C1, \frac{s_y^2}{s_x^2} C2\right) \text{ with length } \frac{s_y^2}{s_x^2} (C2 - C1).$$

---

<sup>1</sup>If the population means are known and are used in  $S_{XX}$  and  $S_{YY}$ , the degrees of freedom are M+1 and N+1.



As stated previously, C1 and C2 have historically been chosen such that

$$\int_0^{C1} h_{M,N}(x)dx = \int_{C2}^{\infty} h_{M,N}(x)dx = \frac{1-\gamma}{2}$$

This, of course, is the evenly split tails convention. It can be shown, however, that this method does not yield the optimal confidence interval.

The problem of finding the minimum length confidence interval is solved by applying a mathematical technique from the field of nonlinear programming. In essence, this nonlinear problem is

$$\text{MINIMIZE: } \frac{s_y^2}{s_x^2} (C2 - C1)$$

$$\text{Subject to: } \int_0^{C1} h_{M,N}(x)dx + \int_{C2}^{\infty} h_{M,N}(x)dx = 1 - \gamma$$

It is noted that the problem above is in reality a single variable line search. This becomes apparent when one chooses a value for C1, for then the value of C2 is fixed by the constraint. Thus, C1 is selected to serve as the independent decision variable. A single variable line search is then conducted over the interval  $(0, H_{M,N}^{-1}(1-\gamma))$  where  $H_{M,N}^{-1}(1-\gamma)$  is the inverse F distribution with M and N degrees of freedom. As C1 varies over this interval, C2 varies from  $H_{M,N}^{-1}(\gamma)$  to infinity. By searching C1's interval, various pairs of (C1,C2) are obtained and used in





evaluating the derivative of the objective function. Where the derivative is zero, the objective function is minimized and the optimal values for C1 and C2 are then known.

When the criteria for optimality is changed from the ratio of variances to the ratio of standard deviations, the line search problem is the same as the ratio of variances except the objective function then has square roots in it. In other words, the problem is

$$\text{MINIMIZE: } \sqrt{\frac{s_y^2}{s_x^2}} (\sqrt{C2} - \sqrt{C1})$$

$$\text{Subject to: } \int_0^{C1} h_{M,N}(x)dx + \int_{C2}^{\infty} h_{M,N}(x)dx = 1 - \gamma.$$

The logic and methodology in the above problem are the same as those in the ratio of variances and hence are omitted here.

A result of Scheffé [2] shows that reparameterizing with a logarithmic transformation and minimizing the length produces the shortest unbiased confidence interval for the ratio of two variances. The term "unbiased" as used here refers to Neyman's [1] notion of unbiasedness. Hence, in the context of this thesis, the unbiased nonlinear problem becomes

$$\text{MINIMIZE: } \log \left[ \frac{C2}{C1} \right]$$

$$\text{Subject to: } \int_0^{C1} h_{M,N}(x)dx + \int_{C2}^{\infty} h_{M,N}(x)dx = 1 - \gamma.$$



Again, as in the case of the minimum length confidence intervals for the ratio of two variances and the ratio of two standard deviations, the logic and methodology are the same, hence, again are omitted.

## B. SUMMARY

This thesis contains the values necessary to construct the optimal confidence interval for the three parameterizations:

1) The ratio of two variances; 2) The ratio of two standard deviations and 3) The logarithm of the ratio of two variances. These values were obtained as solutions to the three nonlinear programming problems:

$$(1) \text{ MINIMIZE: } C2 - C1$$

$$\text{Subject to: } \int_0^{C1} h_{M,N}(x)dx + \int_{C2}^{\infty} h_{M,N}(x)dx = 1 - \gamma$$

$$(2) \text{ MINIMIZE: } \sqrt{C2} - \sqrt{C1}$$

$$\text{Subject to: } \int_0^{C1} h_{M,N}(x)dx + \int_{C2}^{\infty} h_{M,N}(x)dx = 1 - \gamma$$

$$(3) \text{ MINIMIZE: } \log \left[ \frac{C2}{C1} \right]$$

$$\text{Subject to: } \int_0^{C1} h_{M,N}(x)dx + \int_{C2}^{\infty} h_{M,N}(x)dx = 1 - \gamma$$





As a final note, the statistic  $\frac{s_y^2}{s_x^2}$  was dropped from the objective functions. This quantity is a random variable, and although its value influences the length in a multiplicative way, it can not be altered and has no role in the optimization process.



### III. DISCUSSION OF ACCURACY

The precision of the tabled values is rather variable. After much study, it was decided to print the values of C1 and C2 to six decimal places. This decision was reached only after all available information had been considered and evaluated carefully. The net result of this deliberating is an earnest belief that at least six significant digits are valid throughout. Since all values for C1 are less than one, and all values for C2 are greater than one, any inaccuracies of the printed values occur in C2. The supporting information follows.

The values in Appendix A were found from an optimizing algorithm which utilized four subroutines from the International Mathematical and Scientific Library. The routines were MDFDRE (the F probability distribution), MDFI (the inverse F probability distribution), MDBETI (the inverse incomplete beta distribution) and MDBETA (the incomplete beta probability distribution). These routines, as well as the optimizing algorithm, were programmed in double precision FORTRAN computer code which theoretically allowed for sixteen digit accuracy. These codes were executed on the IBM 360/67 computer located at the Naval Postgraduate School, Monterey, California.

The key to precise, accurate values from these programs was found in the incomplete beta probability distribution routine, for the other three routines called it for their primary values which they then transformed into the numbers they supplied to the optimizing algorithm. The incomplete beta probability





distribution routine was based upon Algorithm 179, the Incomplete Beta Ratio, of the Association for Computing Machinery. Tests which were independent of this thesis effort revealed that this algorithm had given accurate results to at least nine decimal places when compared to published values of the incomplete beta distribution.

Another check of the values supplied by the IMSL routines was conducted by first using the inverse F probability distribution program to find points which corresponded to a given probability. The F probability distribution program was then given these values in order to confirm the probabilities. Over 250 such tests were conducted with the known probabilities being reproduced accurately to eight decimal places. A wide range of points which were produced in this test were also fed into an independent F probability distribution program which was in the computer language of APL. These points again produced the known probabilities to within eight decimal place accuracy. By experimenting with these points, i.e., deleting the last digit from them and refeeding them into the APL program, results were obtained which implied that the points were good to at least six decimal places.

Finally, it was decided to check the values in Appendix A by comparing them to alternate solutions found from another optimizing algorithm. When a wide range of the published values of this thesis were compared to solutions found from the other algorithm which utilized the same routines, ten points out of



190 disagreed with each other and this occurred in the fifth decimal place of C2. These disagreements occurred repeatedly when the degrees of freedom were disproportionate, the first being much larger than the second (i.e., (9,1), (10,1), (25,1), (50,6), (60,7), etc.). Additional experimentation revealed that the discrepancies in C2 were caused by the nearly horizontal curve that the F cumulative distribution function assumed at high levels of probability. However, when the published values and their alternatives were tested in the independent, APL computer program of the F probability distribution, it was found that the published values satisfied the probability integral constraint better and gave a smaller confidence interval length.

In conclusion, for convenience of printing, it was decided to fix the values found in this thesis at six decimal places. This decision was not arrived at easily, but only after many hours of study, deliberation and computer usage. This decision was based upon the accuracy of the incomplete beta probability distribution subroutine, the demonstrated preciseness of the other subroutines and the high satisfaction of the probability constraint by the published values. Although discrepancies in C2 were found in about 5% of the cases checked, they occur only in the last two decimal places of eight or more digit numbers, and do not affect the probability statements or the length of the confidence interval in any noticeable way.



#### IV. CONCLUSIONS

##### A. OPTIMAL LENGTH CONFIDENCE INTERVALS

Minimum length confidence intervals offer a significant reduction in interval length over the classical intervals which are obtained by splitting the tails evenly. The amount of reduction obtained is a function of the degrees of freedom of the F probability distribution. Examination of the published values for the minimum length confidence intervals reveals that if M is fixed at 1 or 2, essentially all of the alpha level probability ( $\alpha = 1 - \gamma$ ), has to be placed in the upper tail, thus giving confidence intervals with lengths that are two to six times smaller than the lengths of the split tail intervals. When the first degree of freedom is larger than 2, however, the reduction in length becomes more dependent upon the second degree of freedom, N. This principle is illustrated in Figures 2 and 3. Figure 2 shows that if N is fixed, the savings in interval length is a slowly decreasing function with a relatively limited range. Figure 3 shows that if N varies, then the reduction ratio is a sharply increasing function which ranges roughly from 1.1 to 2. It should also be pointed out that after both degrees of freedom become larger than 10, the lengths of the shortest confidence intervals are very close to the lengths of the traditional ones.

Another trend which is observed in the minimum length confidence intervals is the distribution of the tail area of the





appropriate F probability distribution. The general principle is that the upper (or right-hand) tail is always heavily favored with probability over the lower (or left-hand) tail. As is true of reduction in interval length, the distribution of tail area is dependent upon both degrees of freedom. When the first degree of freedom is fixed at 1 or 2, again almost all of the tail area has to go into the upper tail. When M is larger than 2, the tail area is redistributed as a function of N. In other words, with M larger than 2, the amount of probability in the lower tail increases as N increases. An example of this effect is shown in Figure 4. Again, after the degrees of freedom are simultaneously larger than 10 (although the upper tail is still favored heavily over the lower tail), the amount of length reduction is relatively small.

A close study of the published values for the confidence intervals of the ratio of two standard deviations reveals that the same principles noted in the discussion above also applies to them. Figures 5, 6 and 7 illustrate this fact. Because of this repetition, further discussion of these intervals is omitted.

The shortest unbiased confidence intervals do not offer a significant reduction in interval length when compared to either the equal tail intervals or the minimum length intervals. However, the unbiased intervals are unbiased; a claim which neither of the other two classes of intervals can make.

There are two general principles one should note about these shortest unbiased intervals. First, the reduction in the



logarithms of their length as compared to the classical ones depends upon the values of the degrees of freedom,  $M$  and  $N$ . If  $M$  is greater than  $N$ , the reduction ratio is always greater than 1. As the value of  $N$  approaches that of  $M$ , the reduction ratio approaches the value of 1. When  $M$  equals  $N$ , the shortest unbiased interval is the classical equal tails interval. This result is attributed to Scheffé [2]. When  $N$  is larger than  $M$ , the reduction ratio increases toward an upper limit of approximately 1.1.

Second, the distribution of tail area of the appropriate  $F$  distribution also depends upon the values of  $M$  and  $N$ . If  $M$  is greater than  $N$ , the upper tail is favored with more area. If  $M$  is less than  $N$ , the lower tail has more area. Of course, if  $M$  equals  $N$ , neither tail is favored over the other which implies equal tail area.

## B. GENERAL

Three classes of confidence intervals for the ratio of two variances have been discussed in this thesis. The class that the practitioner chooses to use will depend upon his value judgments concerning the trade-off between interval length and biasedness. The minimum length confidence intervals are highly biased in favor of higher false values of the parameter. The unbiased confidence intervals have the shortest length for the logarithm of the ratio of the variances. However, when these confidence intervals are converted to the confidence intervals for the ratio of the variances, they have greater length than the minimum length



intervals. The equal tails intervals have greater length than the minimum length intervals and are biased (but slightly) in favor of higher false values of the parameter. Figure 1 illustrates the power functions which result from converting the classes of confidence intervals discussed into their equivalent tests of hypothesis. In conclusion, the practitioner must decide which of the two factors -- power or interval length -- is more important to him and use the appropriate tabled values.



## APPENDIX A

The following tables are the principle objective and result of this thesis. Seven levels of confidence are addressed -- .8, .9, .95, .975, .99, .995, .999 -- for the sets of degrees of freedom one through ten (by ones), twelve through twenty (by twos) and twenty-five through sixty (by fives). For each level of confidence, three tables appear; one for the minimum length confidence interval for the ratio of the variances, one for the minimum length confidence interval for the ratio of the standard deviations and a third for the shortest unbiased confidence interval.

Each table has five headings. "DF" means the degrees of freedom. The first number listed is the first degree of freedom (M) and is printed only at the beginning of each table. The second integer found is the second degree of freedom (N). N is printed for every row in the table. The columns labeled "C-1" and "C-2" contain the values which are solutions to the optimal length confidence interval problem. The column labeled "A-2/A-1" is the ratio of upper tail area to lower. The column labeled "Reduction" is the value of the ratio of the classical interval length to the shortest interval length. Minimum length confidence intervals are labeled as "coefficients" because in reality they must be multiplied by the test statistic,  $s_y^2/s_x^2$ , to produce the true confidence interval length.





DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	.472136	*	4.206
2	0.0	.555556	*	.392
3	0.0	.682207	*	2.058
4	0.0	.850721	*	.526
5	0.0	1.178234	*	.856
6	0.0	.073897	*	.813
7	0.0	.002010	*	.784
8	0.0	.951093	*	.764
9	0.0	.913768	*	.748
10	0.0	.882888	*	.736
12	0.0	.839325	*	.718
14	0.0	.809107	*	.706
16	0.0	.786320	*	.697
18	0.0	.769940	*	.690
20	0.0	.756528	*	.684
25	0.0	.732764	*	.675
30	0.0	.717198	*	.668
35	0.0	.706189	*	.664
40	0.0	.698010	*	.660
45	0.0	.691689	*	.658
50	0.0	.686657	*	.656
55	0.0	.682557	*	.655
60	0.0	.679152	*	.653

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.0	12.000000	*	4.115
3	0.0	4.000000	*	3.222
4	0.0	2.886027	*	.855
5	0.0	.472136	*	.706
6	0.0	.259135	*	.625
7	0.0	.122992	*	.576
8	0.0	.043369	*	.542
9	0.0	.931395	*	.517
10	0.0	.934861	*	.490
12	0.0	.898648	*	.484
14	0.0	.845963	*	.463
16	0.0	.809493	*	.448
18	0.0	.782756	*	.437
20	0.0	.762319	*	.429
25	0.0	.746189	*	.422
30	0.0	.717643	*	.410
35	0.0	.698954	*	.403
40	0.0	.685768	*	.397
45	0.0	.675968	*	.393
50	0.0	.668397	*	.390
55	0.0	.662374	*	.387
60	0.0	.657466	*	.385
		.653392	*	.384

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.0000005	13.0633931	8097165.0	4.089
1	0.0000210	4.156488	35780.4	2.160
2	0.0000793	2.936466	35282.5	1.773
3	0.001585	2.485798	35956.7	1.612
4	0.0024299	2.254640	11061.2	1.523
5	0.003249	2.114760	11700.2	1.468
6	0.004012	2.021240	518.0	1.430
7	0.004709	1.954400	412.1	1.402
8	0.005340	1.904290	344.4	1.381
9	0.005910	1.865349	298.0	1.364
10	0.006890	1.808796	239.4	1.340
11	0.007696	1.769731	204.4	1.322
12	0.008367	1.741144	181.4	1.300
13	0.008932	1.719325	165.2	1.292
14	0.009413	1.702128	153.3	1.278
15	0.010352	1.671745	133.8	1.269
16	0.011033	1.651895	122.2	1.263
17	0.011549	1.637912	114.5	1.253
18	0.011953	1.627532	109.0	1.258
19	0.012278	1.619522	104.9	1.254
20	0.012545	1.613153	100.7	1.251
25	0.012768	1.607968	99.2	1.249
30	0.012957	1.603666	97.1	1.247

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.000596	13.644620	94196.4	4.076
1	0.005134	4.238660	1934.9	2.129
2	0.011592	2.961406	461.8	1.730
3	0.018002	2.491799	214.7	1.532
4	0.023774	2.251868	132.7	1.469
5	0.028816	2.107189	95.2	1.410
6	0.033133	2.010764	74.7	1.370
7	0.036969	1.942043	62.0	1.340
8	0.040264	1.890652	53.5	1.318
9	0.043150	1.850804	47.5	1.300
10	0.047943	1.793098	39.6	1.274
11	0.051751	1.753367	34.7	1.256
12	0.054839	1.724371	31.4	1.242
13	0.057391	1.702288	29.0	1.232
14	0.059532	1.684915	27.2	1.224
15	0.063627	1.654298	24.2	1.209
16	0.066539	1.634352	22.4	1.199
17	0.068715	1.620331	21.2	1.192
18	0.070401	1.609939	20.3	1.187
19	0.071746	1.601929	19.6	1.183
20	0.072844	1.595567	19.1	1.180
25	0.073756	1.590392	18.7	1.178
30	0.074527	1.586101	18.4	1.176

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.002855	14.009580	24935.4	4.065
6	0.014963	4.290596	809.1	2.112
7	0.028874	2.977324	220.0	1.707
8	0.041554	2.495602	108.3	1.535
9	0.052478	2.249891	69.0	1.440
10	0.061762	2.101923	50.4	1.379
11	0.069639	2.003412	40.0	1.338
12	0.076416	1.933265	33.5	1.307
13	0.082239	1.880847	29.1	1.284
14	0.087299	1.840227	25.9	1.266
15	0.091635	1.81443	21.7	1.239
16	0.102198	1.741000	19.1	1.220
17	0.107490	1.711499	17.3	1.206
18	0.111842	1.689040	16.0	1.199
19	0.115480	1.671377	15.0	1.187
20	0.118224	1.640260	13.4	1.172
25	0.127303	1.619993	12.4	1.166
30	0.130958	1.605730	11.7	1.155
40	0.133781	1.595195	11.2	1.150
50	0.136028	1.587060	10.8	1.146
55	0.137859	1.580598	10.6	1.144
59	0.139379	1.575343	10.5	1.142
60	0.140662	1.570985	10.5	1.138

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.006188	14.259872	43762.7	4.065
7	0.025634	4.326024	545.2	2.101
8	0.046075	2.987537	156.3	1.693
9	0.064011	2.497016	78.6	1.519
10	0.079135	2.246910	50.6	1.422
11	0.091944	2.096310	37.2	1.361
12	0.102721	1.996043	29.6	1.318
13	0.111896	1.924635	24.8	1.287
14	0.119776	1.871262	21.5	1.263
15	0.126603	1.829394	19.2	1.245
16	0.133781	1.770001	16.0	1.217
17	0.146623	1.728772	14.1	1.198
18	0.153708	1.698680	12.8	1.184
19	0.159525	1.675759	11.8	1.173
20	0.164385	1.657724	11.1	1.164
25	0.173622	1.625927	9.8	1.149
30	0.180152	1.605199	9.1	1.139
35	0.185009	1.590620	8.6	1.132
40	0.188763	1.579808	8.2	1.127
45	0.191750	1.571472	7.9	1.123
50	0.194194	1.564847	7.7	1.119
55	0.196204	1.559457	7.5	1.117
60	0.197908	1.554986	7.4	1.115

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.009803	1.441986	9.98825	4.062
8	0.035641	1.4351508	9.9925	4.095
9	0.061341	1.4294291	9.999	4.128
10	0.083537	1.4249702	10.002	4.161
11	0.102148	1.4217024	10.005	4.194
12	0.117717	1.4190649	10.008	4.227
13	0.130326	1.4168830	10.011	4.260
14	0.141196	1.4151635	10.014	4.293
15	0.150554	1.4138213	10.017	4.326
16	0.158781	1.4128005	10.020	4.359
17	0.166197	1.4120595	10.023	4.392
18	0.173347	1.4115399	10.026	4.425
19	0.179957	1.4112084	10.029	4.458
20	0.186199	1.4110389	10.032	4.491
21	0.191957	1.4110086	10.035	4.524
22	0.197244	1.411156	10.038	4.557
23	0.202054	1.4114556	10.041	4.590
24	0.206397	1.4118907	10.044	4.623
25	0.210284	1.4124718	10.047	4.656
26	0.213733	1.413149	10.050	4.689
27	0.216768	1.4138936	10.053	4.722
28	0.219398	1.4146979	10.056	4.755
29	0.221635	1.4155614	10.059	4.788
30	0.223483	1.4164836	10.062	4.821
31	0.224942	1.4174649	10.065	4.854
32	0.226018	1.4185036	10.068	4.887
33	0.226712	1.4195989	10.071	4.920
34	0.227037	1.4207518	10.074	4.953
35	0.227092	1.4219629	10.077	4.986
36	0.226877	1.4232342	10.080	5.019

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.013298	1.4580333	8.119.4	4.061
9	0.044430	1.4570630	8.124.7	4.094
10	0.074475	1.4563123	8.129.0	4.127
11	0.100148	1.4556517	8.134.3	4.160
12	0.121566	1.4550857	8.139.6	4.193
13	0.139437	1.4546182	8.145.0	4.226
14	0.154462	1.4542440	8.150.3	4.259
15	0.167216	1.4539583	8.156.6	4.292
16	0.178149	1.4537568	8.162.9	4.325
17	0.187610	1.4536353	8.169.2	4.358
18	0.195932	1.4535898	8.175.5	4.391
19	0.203132	1.4536167	8.182.8	4.424
20	0.209311	1.4537112	8.189.1	4.457
21	0.214475	1.4538799	8.196.4	4.490
22	0.219625	1.4541182	8.203.7	4.523
23	0.224761	1.4544314	8.210.0	4.556
24	0.229887	1.4548147	8.217.3	4.589
25	0.234998	1.4552732	8.224.6	4.622
26	0.240098	1.4558123	8.231.9	4.655
27	0.245189	1.4564271	8.239.2	4.688
28	0.250274	1.4571233	8.246.5	4.721
29	0.255356	1.4579051	8.253.8	4.754
30	0.260437	1.4587772	8.261.1	4.787
31	0.265519	1.4597451	8.268.4	4.820
32	0.270603	1.4608132	8.275.7	4.853
33	0.275691	1.4619867	8.283.0	4.886
34	0.280784	1.4632697	8.290.3	4.919
35	0.285883	1.4646572	8.297.6	4.952
36	0.286297	1.4661542	8.304.9	4.985

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
9	1	4	7	4
1	0.016519	4.688947	2239.5	4.059
2	0.052071	4.385470	352.4	2.088
3	0.085708	4.002230	106.1	2.0675
4	0.114258	3.495264	54.2	1.457
5	0.138006	2.236434	35.1	1.398
6	0.157794	1.080390	25.8	1.335
7	0.174420	0.976108	20.5	1.299
8	0.188529	0.901744	14.7	1.259
9	0.200624	0.846034	14.8	1.234
10	0.211092	0.802756	13.3	1.215
11	0.228271	0.739901	10.9	1.186
12	0.241756	0.696456	9.5	1.166
13	0.252608	0.664629	8.6	1.152
14	0.261524	0.640306	7.9	1.140
15	0.268976	0.621111	7.4	1.133
16	0.273315	0.587124	6.5	1.116
17	0.279319	0.564850	5.6	1.109
18	0.280067	0.554919	5.6	1.098
19	0.306458	0.537414	5.3	1.093
20	0.311065	0.522863	5.1	1.088
25	0.314822	0.521555	5.0	1.085
30	0.317943	0.515279	4.8	1.082
35	0.320577	0.510396	4.7	1.080

CONFIDENCE LEVEL=.8  
COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
10	1	14	6	4
1	0.019427	4.776457	6631.5	4.058
2	0.058698	4.397303	331.6	2.086
3	0.095346	3.004652	100.3	2.067
4	0.126311	2.494078	51.3	1.493
5	0.152022	2.233243	33.2	1.394
6	0.173430	2.075768	24.4	1.330
7	0.191413	1.970608	19.3	1.286
8	0.206676	1.895481	16.1	1.254
9	0.219762	1.839152	13.9	1.225
10	0.231091	1.795354	12.2	1.200
11	0.249694	1.731671	10.0	1.181
12	0.264507	1.687587	8.9	1.166
13	0.276076	1.655248	8.0	1.146
14	0.285751	1.630504	7.4	1.134
15	0.293842	1.610955	6.9	1.125
16	0.309250	1.576286	6.0	1.109
17	0.320172	1.553522	5.5	1.099
18	0.328314	1.537420	5.2	1.092
19	0.334616	1.525424	4.9	1.086
20	0.339639	1.516139	4.7	1.082
25	0.343736	1.508738	4.6	1.079
30	0.347142	1.502700	4.5	1.076
35	0.350017	1.497680	4.4	1.074

CONFIDENCE LEVEL=.8  
COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.0243359	14.908723	5940.1	4.057
1	0.069506	4.414965	306.8	2.083
2	0.110903	3.007385	93.4	1.668
3	0.145691	2.491669	47.8	1.489
4	0.174522	2.227632	30.9	1.388
5	0.198518	2.067988	22.6	1.324
6	0.218681	1.961209	17.9	1.280
7	0.233580	1.884800	14.9	1.247
8	0.250498	1.827414	12.9	1.222
9	0.263229	1.782724	11.4	1.202
10	0.284160	1.717597	9.4	1.173
11	0.300631	1.672382	8.2	1.153
12	0.313916	1.639128	7.5	1.138
13	0.324854	1.613624	6.7	1.126
14	0.334013	1.593432	6.2	1.117
15	0.351489	1.557514	5.5	1.101
16	0.363905	1.533839	5.0	1.090
17	0.373178	1.517043	4.6	1.083
18	0.380368	1.504500	4.4	1.077
19	0.386105	1.494771	4.2	1.073
20	0.390789	1.487004	4.1	1.070
25	0.394685	1.480658	4.0	1.067
30	0.397978	1.475375	3.9	1.065

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.028311	15.003915	5571.1	4.057
1	0.077859	4.427500	293.1	2.081
2	0.122834	3.009376	89.5	1.665
3	0.160508	2.489450	45.8	1.486
4	0.191709	2.222970	29.6	1.385
5	0.217684	2.061636	21.6	1.321
6	0.239522	1.953574	17.1	1.276
7	0.258084	1.876131	14.2	1.243
8	0.274026	1.817884	12.2	1.213
9	0.287851	1.772457	10.8	1.198
10	0.310614	1.706122	8.9	1.168
11	0.328557	1.659949	7.7	1.148
12	0.343034	1.625909	6.9	1.132
13	0.355007	1.599745	6.3	1.121
14	0.365030	1.578990	5.9	1.111
15	0.384191	1.541966	5.1	1.095
16	0.397836	1.517477	4.6	1.084
17	0.408048	1.500053	4.3	1.077
18	0.415977	1.487010	4.1	1.071
19	0.422313	1.476876	3.9	1.067
20	0.427491	1.468771	3.8	1.064
25	0.431803	1.462141	3.7	1.061
30	0.435449	1.456614	3.6	1.058

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
16				
1	0.031513	15.075691	5349.3	4.056
2	0.084495	4.436850	284.6	2.080
3	0.132237	3.011183	37.1	1.664
4	0.172166	2.487496	44.6	1.484
5	0.205229	2.219089	28.7	1.383
6	0.232765	2.056403	21.0	1.318
7	0.255933	1.947299	16.6	1.273
8	0.275641	1.869009	13.8	1.240
9	0.292584	1.810048	11.8	1.214
10	0.307290	1.764005	10.5	1.194
11	0.331536	1.696650	8.6	1.165
12	0.350680	1.649657	7.4	1.144
14	0.366172	1.614938	6.6	1.129
16	0.378963	1.588200	6.0	1.117
20	0.389702	1.566952	5.6	1.107
25	0.410272	1.528951	4.9	1.091
30	0.424955	1.503733	4.4	1.080
35	0.435964	1.485743	4.1	1.072
40	0.444526	1.472248	3.9	1.067
45	0.451375	1.461743	3.7	1.062
50	0.456980	1.453329	3.6	1.059
55	0.461631	1.446436	3.5	1.056
60	0.465604	1.440685	3.4	1.054

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
18				
1	0.034145	15.131737	5204.8	4.056
2	0.089860	4.444089	279.0	2.080
3	0.139821	3.012085	85.4	1.663
4	0.182562	2.485795	43.7	1.482
5	0.215125	2.215832	28.2	1.381
6	0.244927	2.052040	20.6	1.316
7	0.269177	1.942074	16.2	1.271
8	0.289822	1.863077	13.4	1.238
9	0.307585	1.803515	11.6	1.212
10	0.323017	1.756951	10.2	1.192
12	0.348489	1.688725	8.4	1.162
14	0.368634	1.641025	7.2	1.141
16	0.384960	1.605715	6.4	1.126
18	0.398437	1.578475	5.9	1.114
20	0.409803	1.556793	5.4	1.105
25	0.431574	1.517924	4.7	1.088
30	0.447145	1.492052	4.2	1.077
35	0.458848	1.473552	3.9	1.069
40	0.467960	1.459646	3.7	1.064
45	0.475259	1.448802	3.5	1.059
50	0.481238	1.440105	3.4	1.056
55	0.486226	1.432972	3.3	1.053
60	0.490450	1.427013	3.2	1.051

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
20	0.036340	15.176712	51.05.1	4.056
25	0.094234	4.449858	275.1	2.079
30	0.146061	3.012732	84.3	1.662
35	0.189288	2.484318	43.1	1.481
40	0.225088	2.213070	27.8	1.380
45	0.254935	2.048356	20.3	1.315
50	0.280093	1.937667	16.0	1.270
55	0.301508	1.858070	13.2	1.236
60	0.319958	1.797997	11.4	1.211
100	0.335998	1.750986	10.0	1.190
120	0.362505	1.682008	8.2	1.160
140	0.383493	1.633693	7.1	1.139
160	0.400534	1.597866	6.3	1.124
180	0.414636	1.570184	5.7	1.112
200	0.426504	1.548117	5.3	1.103
250	0.449313	1.508474	4.6	1.085
300	0.465666	1.482014	4.1	1.074
350	0.477971	1.463051	3.8	1.067
400	0.487568	1.448770	3.6	1.061
450	0.495265	1.437618	3.4	1.057
500	0.501576	1.428660	3.3	1.053
550	0.506846	1.421305	3.2	1.050
600	0.511312	1.415155	3.1	1.048

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
25	0.040492	15.257971	4958.1	4.055
30	0.102548	4.460190	269.2	2.078
35	0.157633	3.013725	82.5	1.661
40	0.203673	2.481388	43.2	1.480
45	0.241783	2.207736	27.4	1.378
50	0.273594	2.041275	20.8	1.313
55	0.300436	1.929197	15.6	1.267
60	0.322343	1.848442	12.9	1.234
70	0.343100	1.787370	11.0	1.208
80	0.360307	1.739481	9.7	1.188
90	0.388809	1.669011	7.9	1.157
100	0.411452	1.619460	6.8	1.136
120	0.429880	1.582586	6.1	1.120
140	0.445175	1.553998	5.5	1.108
160	0.458078	1.531140	5.1	1.099
180	0.482970	1.489887	4.4	1.081
200	0.500900	1.462189	3.9	1.070
250	0.514444	1.442240	3.6	1.062
300	0.525043	1.427156	3.4	1.057
350	0.533567	1.415334	3.2	1.052
400	0.540574	1.405811	3.1	1.048
450	0.546436	1.397971	3.0	1.046
500	0.551414	1.391400	2.9	1.043

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
30				
1	0.043404	15.312357	4881.2	4.055
2	0.108270	4.467039	266.1	2.078
3	0.165712	3.014261	81.6	1.660
4	0.213609	2.479235	41.7	1.479
5	0.253323	2.203911	26.8	1.377
6	0.286506	2.036217	19.5	1.312
7	0.314541	1.923149	15.3	1.266
8	0.338495	1.841558	12.7	1.232
9	0.359183	1.779759	10.9	1.206
10	0.377224	1.732224	9.5	1.186
11	0.407164	1.659646	7.8	1.156
12	0.431009	1.609166	6.7	1.134
14	0.450460	1.571495	5.9	1.118
16	0.466640	1.542212	5.4	1.106
20	0.480317	1.518741	4.9	1.096
25	0.506783	1.476224	4.3	1.075
30	0.523924	1.447539	3.9	1.068
35	0.540431	1.426795	3.5	1.060
40	0.551816	1.411056	3.3	1.054
45	0.556099	1.398683	3.1	1.049
50	0.568557	1.388691	3.0	1.046
55	0.574895	1.380446	2.9	1.043
60	0.580287	1.373522	2.8	1.040

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
35				
1	0.045553	15.351308	4835.9	4.055
2	0.112463	4.471912	264.2	2.077
3	0.171586	3.014581	81.0	1.660
4	0.220878	2.477597	41.4	1.478
5	0.261772	2.201042	26.6	1.376
6	0.295969	2.032432	19.3	1.311
7	0.324837	1.918622	15.2	1.265
8	0.349622	1.836400	12.6	1.233
9	0.371007	1.774048	10.8	1.206
10	0.389675	1.725019	9.4	1.185
12	0.420703	1.652586	7.7	1.154
14	0.445465	1.601383	6.6	1.133
16	0.465702	1.563086	5.8	1.117
20	0.482566	1.533253	5.3	1.105
25	0.496846	1.509293	4.9	1.095
30	0.524546	1.465759	4.3	1.077
35	0.544653	1.436270	3.7	1.066
40	0.559934	1.414870	3.4	1.058
45	0.571958	1.398565	3.2	1.052
50	0.581672	1.385751	3.0	1.047
55	0.589690	1.375363	2.9	1.044
55	0.596423	1.366774	2.8	1.041
60	0.602159	1.359549	2.7	1.039

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
40				
1	0.047204	15.380576	4807.0	4.055
2	0.115664	14.475556	263.0	2.077
3	0.176068	13.014787	80.7	1.659
4	0.226426	12.476313	41.2	1.478
5	0.268223	12.198814	26.4	1.376
6	0.303200	12.029497	19.2	1.310
7	0.332800	11.913110	15.1	1.265
8	0.358140	11.832394	12.5	1.231
9	0.380066	11.769608	10.7	1.205
10	0.399223	11.720190	9.4	1.184
12	0.431104	11.647078	7.6	1.154
14	0.456589	11.595295	6.3	1.133
16	0.477450	11.556493	5.8	1.116
18	0.494860	11.526215	5.2	1.104
20	0.509622	11.501857	4.8	1.094
25	0.533832	11.457486	4.1	1.076
30	0.555921	11.427327	3.7	1.065
35	0.575136	11.405378	3.4	1.057
40	0.587689	11.388632	3.1	1.051
45	0.597852	11.375405	3.0	1.046
50	0.606254	11.364678	2.8	1.042
55	0.613320	11.355793	2.7	1.039
60	0.619348	11.348308	2.6	1.037

CONFIDENCE LEVEL=.8  
COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
45				
1	0.048510	15.403374	4787.4	4.055
2	0.118199	14.478393	262.2	2.077
3	0.179599	13.014925	80.4	1.659
4	0.230798	12.475280	41.1	1.478
5	0.273310	12.197035	26.4	1.376
6	0.308904	12.027156	19.2	1.310
7	0.339047	11.912308	15.0	1.264
8	0.364870	11.829195	12.4	1.230
9	0.387229	11.766059	10.6	1.204
10	0.406778	11.716325	9.3	1.184
12	0.439346	11.642660	7.6	1.153
14	0.465416	11.590404	6.5	1.133
16	0.486784	11.551187	5.7	1.116
18	0.504640	11.520540	5.2	1.103
20	0.519799	11.495850	4.8	1.093
25	0.549330	11.430779	4.1	1.075
30	0.570876	11.420056	3.6	1.064
35	0.587332	11.397639	3.3	1.056
40	0.600333	11.380498	3.1	1.050
45	0.610876	11.366933	2.9	1.045
50	0.619607	11.355912	2.8	1.041
55	0.626960	11.346770	2.7	1.038
60	0.633240	11.339057	2.6	1.036

CONFIDENCE LEVEL=.8  
COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
50				
1	0.049569	15.421633	4773.4	4.055
2	0.120230	4.480641	261.6	2.077
3	0.182453	3.015023	80.2	1.659
4	0.234332	2.474433	41.0	1.478
5	0.277423	2.195382	26.3	1.376
6	0.313520	2.025245	19.1	1.310
7	0.344105	1.910020	15.0	1.264
8	0.370320	1.826582	12.4	1.230
9	0.393034	1.763157	10.6	1.204
10	0.412905	1.713163	9.3	1.183
12	0.446038	1.639040	7.6	1.153
14	0.472591	1.586389	6.5	1.131
16	0.494381	1.546824	5.7	1.115
18	0.512608	1.515867	5.2	1.102
20	0.528099	1.490898	4.7	1.093
25	0.558324	1.445232	4.0	1.075
30	0.580427	1.414025	3.6	1.063
35	0.597370	1.391205	3.3	1.055
40	0.610726	1.373722	3.1	1.049
45	0.622598	1.359862	2.9	1.044
50	0.630614	1.348584	2.8	1.040
55	0.638216	1.339216	2.7	1.037
60	0.644716	1.331302	2.6	1.035

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
55				
1	0.050445	15.436585	4763.2	4.055
2	0.121914	4.482486	261.2	2.077
3	0.184807	3.015094	80.1	1.659
4	0.237247	2.473725	40.9	1.477
5	0.280818	2.194374	26.2	1.375
6	0.317330	2.023656	19.1	1.310
7	0.348282	1.908117	15.0	1.264
8	0.374825	1.824408	12.4	1.230
9	0.397834	1.760741	10.6	1.204
10	0.417974	1.710529	9.3	1.193
12	0.451581	1.636020	7.5	1.152
14	0.478540	1.583034	6.4	1.131
16	0.500685	1.543174	5.7	1.115
18	0.519226	1.511952	5.1	1.102
20	0.534999	1.486744	4.7	1.092
25	0.565813	1.440567	4.0	1.074
30	0.588397	1.408941	3.6	1.063
35	0.605706	1.385770	3.3	1.054
40	0.619426	1.367987	3.0	1.048
45	0.630583	1.353868	2.9	1.043
50	0.639850	1.342363	2.7	1.040
55	0.647672	1.333279	2.6	1.037
60	0.654367	1.324702	2.5	1.034

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
60				
1	0.051182	15.449055	4755.4	4.055
2	0.123327	4.484021	260.9	2.077
3	0.186782	3.015147	80.0	1.659
4	0.239693	2.473126	40.8	1.477
5	0.283667	2.193354	26.2	1.375
6	0.320530	2.022315	19.0	1.310
7	0.351791	1.906510	14.9	1.264
8	0.378611	1.822571	12.3	1.230
9	0.401870	1.758699	10.5	1.204
10	0.422238	1.708300	9.2	1.183
12	0.456246	1.633462	7.5	1.152
14	0.483552	1.580189	6.4	1.130
16	0.506000	1.540075	5.7	1.114
18	0.524812	1.508625	5.1	1.102
20	0.540826	1.483210	4.7	1.092
25	0.572158	1.436589	4.0	1.074
30	0.595152	1.404597	3.5	1.062
35	0.612806	1.381117	3.2	1.054
40	0.626819	1.363070	3.0	1.048
45	0.638232	1.348721	2.9	1.043
50	0.647717	1.337014	2.7	1.039
55	0.655734	1.327266	2.6	1.036
60	0.662602	1.319013	2.5	1.034

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	39.863458	*	4.050
2	0.0	8.526316	*	2.171
3	0.0	5.538319	*	1.828
4	0.0	4.544771	*	1.695
5	0.0	4.060420	*	1.626
6	0.0	3.775950	*	1.585
7	0.0	3.589428	*	1.557
8	0.0	3.457919	*	1.537
9	0.0	3.360303	*	1.522
10	0.0	3.285015	*	1.510
12	0.0	3.176549	*	1.493
14	0.0	3.102213	*	1.482
16	0.0	3.048110	*	1.473
18	0.0	3.006977	*	1.467
20	0.0	2.974653	*	1.461
25	0.0	2.917745	*	1.452
30	0.0	2.880695	*	1.446
35	0.0	2.854655	*	1.442
40	0.0	2.835354	*	1.439
45	0.0	2.820476	*	1.437
50	0.0	2.808658	*	1.435
55	0.0	2.799043	*	1.433
60	0.0	2.791068	*	1.432

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.0	49.500000	*	4.029
3	0.0	9.000000	*	2.105
4	0.0	5.462383	*	1.739
5	0.0	4.324555	*	1.594
6	0.0	3.779716	*	1.517
7	0.0	3.463304	*	1.470
8	0.0	3.257442	*	1.438
9	0.0	3.113118	*	1.416
10	0.0	3.006452	*	1.399
12	0.0	2.924466	*	1.385
14	0.0	2.860679	*	1.366
16	0.0	2.806468	*	1.352
18	0.0	2.768171	*	1.343
20	0.0	2.73947	*	1.335
25	0.0	2.589254	*	1.326
30	0.0	2.528305	*	1.319
35	0.0	2.488716	*	1.312
40	0.0	2.460936	*	1.307
45	0.0	2.440369	*	1.303
50	0.0	2.424529	*	1.300
55	0.0	2.411955	*	1.298
60	0.0	2.401731	*	1.296
		2.393255	*	1.295

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.0	53.593245	*	4.023
1	0.0000013	9.161799	1140249.9	2.080
2	0.0000079	5.390826	83639.0	1.701
3	0.000200	4.190994	21752.3	1.547
4	0.000354	3.619713	9520.7	1.464
5	0.000521	3.289109	5437.6	1.413
6	0.000690	3.074532	3625.6	1.378
7	0.000853	2.924365	2666.7	1.352
8	0.001007	2.813535	2095.7	1.333
9	0.001152	2.728442	1726.0	1.318
10	0.001412	2.606467	1286.9	1.296
12	0.001634	2.523314	1041.6	1.281
14	0.001825	2.463028	887.8	1.269
16	0.001990	2.417333	783.6	1.261
18	0.002133	2.381510	708.8	1.254
20	0.002419	2.318631	591.1	1.241
25	0.002632	2.277827	523.3	1.233
30	0.002796	2.249216	479.5	1.228
35	0.002926	2.228044	449.0	1.223
40	0.003032	2.211745	426.6	1.220
45	0.003120	2.199811	409.4	1.218
50	0.003193	2.188297	395.9	1.215
55	0.003256	2.179583	384.9	1.214
60				

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.000074	55.832998	3030302.0	4.020
1	0.001258	9.244047	15865.0	2.067
2	0.003552	5.344430	2402.5	1.679
3	0.006177	4.110361	887.1	1.518
4	0.008742	3.524607	476.2	1.431
5	0.011107	3.186373	310.6	1.377
6	0.013237	2.967226	227.2	1.339
7	0.015139	2.814084	178.9	1.312
8	0.016833	2.701200	148.1	1.291
9	0.018345	2.614625	127.1	1.275
10	0.020913	2.490695	100.7	1.251
12	0.022999	2.406345	85.0	1.234
14	0.024720	2.345272	74.8	1.222
16	0.026161	2.299030	67.6	1.213
18	0.027384	2.262813	62.3	1.205
20	0.029754	2.199321	53.7	1.192
25	0.031464	2.158181	48.6	1.183
30	0.032755	2.129364	45.3	1.177
35	0.033764	2.108059	42.9	1.172
40	0.034572	2.091668	41.1	1.168
45	0.035236	2.078668	39.7	1.166
50	0.035789	2.068105	38.6	1.163
55	0.036258	2.059354	37.7	1.161
60				

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
5				
1	0.000699	57.240357	411183.2	4.018
2	0.005649	9.294917	4368.1	2.059
3	0.012574	5.314302	818.3	1.665
4	0.019474	4.058596	332.9	1.501
5	0.025746	3.463624	188.5	1.411
6	0.031278	3.120475	127.1	1.355
7	0.036116	2.898340	95.0	1.316
8	0.040346	2.743219	76.0	1.288
9	0.044055	2.628943	63.6	1.266
10	0.047323	2.541343	55.1	1.249
12	0.052798	2.416019	44.2	1.224
14	0.057185	2.330774	37.6	1.206
16	0.060770	2.269084	33.2	1.193
18	0.063749	2.222394	30.2	1.183
20	0.066261	2.185838	27.9	1.175
25	0.071094	2.121778	24.2	1.161
30	0.074555	2.080289	21.9	1.152
35	0.077154	2.051237	20.4	1.146
40	0.079176	2.029763	19.4	1.141
45	0.080792	2.013245	18.6	1.137
50	0.082115	2.000147	18.0	1.134
55	0.083216	1.989505	17.5	1.132
60	0.084148	1.980689	17.1	1.130

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
6				
1	0.002098	58.205124	165726.5	4.017
2	0.011909	9.329640	2435.1	2.054
3	0.023721	5.293049	499.5	1.657
4	0.034823	4.022079	211.3	1.490
5	0.044617	3.420402	122.1	1.399
6	0.053105	3.073544	82.2	1.341
7	0.060442	2.849063	62.7	1.301
8	0.066803	2.692325	50.3	1.272
9	0.072348	2.576864	42.3	1.250
10	0.077212	2.488357	36.7	1.232
12	0.085318	2.361731	29.5	1.206
14	0.091782	2.275593	25.1	1.188
16	0.097045	2.213249	22.2	1.175
18	0.101407	2.166057	20.1	1.165
20	0.105078	2.129102	18.6	1.157
25	0.112123	2.064331	16.1	1.142
30	0.117157	2.022367	14.6	1.133
35	0.120929	1.992976	13.6	1.126
40	0.123859	1.971246	12.9	1.121
45	0.126201	1.954529	12.3	1.117
50	0.128115	1.941269	11.9	1.114
55	0.129709	1.930496	11.6	1.112
60	0.131056	1.921569	11.3	1.110

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.004011	58.907128	100947.9	4.017
1	0.018606	9.354740	1768.6	2.050
2	0.034806	5.277020	380.1	1.651
3	0.049580	3.994587	163.8	1.483
4	0.062422	3.387718	95.5	1.391
5	0.073456	3.037890	65.4	1.332
6	0.082941	2.811466	49.3	1.291
7	0.091135	2.653342	39.7	1.261
8	0.098259	2.536835	33.3	1.239
9	0.104495	2.447504	28.9	1.221
10	0.114869	2.319654	23.2	1.154
12	0.123126	2.232640	19.7	1.176
14	0.129840	2.169632	17.4	1.162
16	0.135400	2.121917	15.8	1.152
18	0.140077	2.084538	14.6	1.144
20	0.149047	2.018983	12.6	1.129
25	0.155451	1.976481	11.4	1.119
30	0.160248	1.946695	10.6	1.112
35	0.163975	1.924663	10.0	1.107
40	0.166953	1.907706	9.6	1.103
45	0.169386	1.894252	9.2	1.100
50	0.171412	1.883317	9.0	1.098
55	0.173125	1.874255	8.8	1.096
60				

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.006140	59.440583	74642.6	4.016
1	0.025042	9.373653	1454.1	2.048
2	0.045021	5.264395	321.0	1.648
3	0.062925	3.973001	139.7	1.478
4	0.078358	3.361968	81.7	1.385
5	0.091558	3.009689	56.1	1.325
6	0.102874	2.781618	42.3	1.284
7	0.112632	2.622291	34.0	1.254
8	0.121107	2.504855	28.6	1.231
9	0.128521	2.414779	24.7	1.213
10	0.140844	2.285793	19.8	1.136
12	0.150648	2.197944	16.8	1.167
14	0.158618	2.134289	14.8	1.153
16	0.165219	2.086056	13.4	1.143
18	0.170771	2.048251	12.4	1.134
20	0.181421	1.981897	10.6	1.119
25	0.189027	1.938835	9.6	1.110
30	0.194726	1.908633	8.9	1.103
35	0.199155	1.886279	8.4	1.097
40	0.202694	1.869065	8.0	1.093
45	0.205587	1.855401	7.7	1.090
50	0.207996	1.844292	7.5	1.088
55	0.210033	1.835082	7.3	1.086
60				

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.008292	59.859552	61239.7	4.016
1	0.030960	9.388377	1277.8	2.046
2	0.054168	5.254153	286.7	1.645
3	0.074736	3.955547	125.5	1.475
4	0.092378	3.341090	73.6	1.381
5	0.107428	2.986750	50.5	1.321
6	0.120311	2.757264	38.1	1.279
7	0.131413	2.596884	30.6	1.249
8	0.141051	2.478620	25.7	1.225
9	0.149481	2.387870	22.2	1.207
10	0.156349	2.257840	17.8	1.180
12	0.163493	2.169207	15.0	1.161
14	0.174642	2.104937	13.2	1.147
16	0.183710	2.056205	11.9	1.136
18	0.191221	2.017985	11.0	1.127
20	0.197542	1.950845	9.4	1.112
25	0.209674	1.907224	8.5	1.102
30	0.218345	1.876603	7.9	1.095
35	0.224847	1.853922	7.4	1.090
40	0.229902	1.836447	7.1	1.086
45	0.233943	1.822569	6.8	1.083
50	0.237248	1.811281	6.6	1.080
55	0.240000	1.801919	6.4	1.078
60	0.242328			

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.010365	60.197249	53397.8	4.015
1	0.036301	9.400143	1167.8	2.045
2	0.062275	5.245660	264.9	1.643
3	0.085126	3.941121	116.3	1.472
4	0.104663	3.323794	68.3	1.378
5	0.121306	2.967695	46.8	1.317
6	0.135544	2.736979	35.3	1.275
7	0.147810	2.575670	28.3	1.245
8	0.158458	2.456667	23.7	1.221
9	0.167773	2.365308	20.5	1.202
10	0.173261	2.293320	16.4	1.175
12	0.183261	2.144959	13.8	1.156
14	0.195592	2.080110	12.2	1.142
16	0.205627	2.030905	11.0	1.131
18	0.213944	1.992288	10.1	1.122
20	0.220947	1.924388	8.6	1.107
25	0.234399	1.880222	7.7	1.097
30	0.244023	1.849189	7.1	1.089
35	0.251246	1.826186	6.7	1.084
40	0.256865	1.808451	6.4	1.080
45	0.261360	1.794359	6.2	1.077
50	0.265037	1.782892	6.0	1.074
55	0.268101	1.773378	5.8	1.072
60	0.270693			

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.014114	60.707930	44928.7	4.015
1	0.045364	9.417742	1041.6	2.044
2	0.075801	5.232374	239.3	1.640
3	0.102341	3.918636	105.5	1.469
4	0.124955	3.296765	61.9	1.373
5	0.144193	2.937818	42.4	1.312
6	0.160647	2.705073	31.9	1.270
7	0.174827	2.542201	25.6	1.239
8	0.187143	2.421937	21.4	1.215
9	0.197925	2.329526	18.5	1.196
10	0.215872	2.196858	14.7	1.168
12	0.230185	2.106197	12.4	1.149
14	0.241851	2.040302	10.8	1.134
16	0.251534	1.990230	9.7	1.123
18	0.259697	1.950883	8.9	1.114
20	0.275409	1.881567	7.6	1.099
25	0.286677	1.836371	6.8	1.088
30	0.295151	1.804554	6.2	1.081
35	0.301752	1.730932	5.9	1.076
40	0.307040	1.762697	5.6	1.072
45	0.311371	1.748191	5.4	1.068
50	0.314983	1.736376	5.2	1.066
55	0.318041	1.726565	5.0	1.063
60				

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.017296	61.075692	40623.0	4.015
1	0.052638	9.430252	973.6	2.043
2	0.086498	5.222446	225.2	1.639
3	0.115879	3.901903	99.4	1.466
4	0.140875	3.276592	58.3	1.371
5	0.162135	3.015438	39.9	1.309
6	0.180326	2.681086	30.0	1.267
7	0.196013	2.516957	24.0	1.235
8	0.209650	2.395661	20.0	1.211
9	0.221559	2.302377	17.3	1.192
10	0.241517	2.168293	13.7	1.164
12	0.257430	2.076517	11.5	1.144
14	0.270422	2.009711	10.0	1.129
16	0.281224	1.953878	9.0	1.118
18	0.290342	1.913882	8.2	1.109
20	0.307929	1.848293	7.0	1.093
25	0.320575	1.802160	6.2	1.083
30	0.330103	1.769621	5.7	1.075
35	0.337540	1.745425	5.3	1.070
40	0.343505	1.726722	5.1	1.066
45	0.348396	1.711828	4.9	1.062
50	0.352479	1.699685	4.7	1.060
55	0.355939	1.689594	4.5	1.058
60				

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
16 1	0.019973	61.353121	38107.3	4.015
2	0.058543	9.439592	932.5	2.042
3	0.095103	5.214745	216.6	1.638
4	0.126735	3.888960	95.6	1.465
5	0.153628	3.260951	56.1	1.365
6	0.176506	2.898037	38.4	1.307
7	0.196094	2.662382	28.8	1.264
8	0.212999	2.497219	23.0	1.233
9	0.227709	2.375065	19.2	1.208
10	0.240610	2.281048	16.5	1.189
12	0.262145	2.145761	13.0	1.161
14	0.279381	2.053024	10.9	1.141
16	0.293476	1.985425	9.5	1.126
18	0.305213	1.933922	8.5	1.114
20	0.315135	1.893352	7.8	1.105
25	0.334311	1.821625	6.6	1.085
30	0.348135	1.774643	5.8	1.079
35	0.358572	1.741444	5.3	1.071
40	0.366732	1.716721	5.0	1.066
45	0.373286	1.697586	4.7	1.062
50	0.378666	1.682331	4.5	1.058
55	0.383163	1.669883	4.4	1.055
60	0.386976	1.659529	4.2	1.053

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
18 1	0.022232	61.569839	36499.3	4.015
2	0.063405	9.446828	905.5	2.042
3	0.102147	5.208596	210.8	1.637
4	0.135606	3.878648	93.1	1.464
5	0.164043	3.248467	54.6	1.367
6	0.188246	2.884115	37.3	1.306
7	0.208982	2.647384	28.0	1.263
8	0.226892	2.481356	22.3	1.231
9	0.242491	2.358478	18.6	1.206
10	0.256184	2.263838	16.0	1.187
12	0.279071	2.127518	12.6	1.159
14	0.297421	2.033947	10.5	1.138
16	0.312451	1.965634	9.2	1.123
18	0.324984	1.913560	8.2	1.112
20	0.335593	1.872480	7.5	1.103
25	0.356138	1.799734	6.3	1.086
30	0.370934	1.751984	5.6	1.076
35	0.382216	1.718184	5.1	1.068
40	0.391011	1.692978	4.7	1.063
45	0.398086	1.673444	4.5	1.059
50	0.403900	1.657855	4.3	1.055
55	0.408764	1.645123	4.1	1.052
60	0.412893	1.634525	4.0	1.050

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
20	1 0.024153	61.743800	35403.5	4.015
	2 0.067468	9.452595	886.9	2.041
	3 0.108007	5.203574	206.8	1.636
	4 0.142976	3.870240	91.4	1.463
	5 0.172696	3.238271	53.5	1.367
	6 0.198002	2.872722	36.5	1.305
	7 0.219699	2.635086	27.4	1.261
	8 0.238454	2.468326	21.8	1.230
	9 0.254802	2.344830	18.2	1.205
	10 0.269164	2.249654	15.6	1.186
	12 0.293200	2.112439	12.3	1.157
	14 0.312501	2.018138	10.3	1.136
	16 0.328334	1.949233	8.6	1.121
	18 0.341555	1.896616	7.9	1.110
	20 0.352760	1.855082	7.2	1.101
	25 0.374497	1.781419	6.1	1.084
	30 0.390243	1.732973	5.4	1.073
	35 0.402178	1.698626	4.9	1.066
	40 0.411538	1.672974	4.5	1.060
	45 0.419078	1.653073	4.3	1.056
	50 0.425281	1.637176	4.1	1.052
	55 0.430475	1.624179	3.9	1.050
	60 0.434889	1.613354	3.8	1.047

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
25	1 0.027869	62.058229	33810.2	4.015
	2 0.075169	9.462928	859.1	2.041
	3 0.119066	5.194296	200.8	1.635
	4 0.156868	3.854735	88.7	1.462
	5 0.189009	3.219431	51.9	1.365
	6 0.216408	2.851616	35.4	1.303
	7 0.239936	2.612245	26.5	1.259
	8 0.260310	2.444064	21.1	1.227
	9 0.278101	2.319358	17.5	1.203
	10 0.293760	2.223125	15.0	1.183
	12 0.320034	2.084123	11.8	1.154
	14 0.341205	1.988348	9.8	1.133
	16 0.358627	1.918194	8.5	1.118
	18 0.373218	1.864499	7.6	1.106
	20 0.385618	1.822020	6.9	1.097
	25 0.409773	1.746436	5.7	1.080
	30 0.427361	1.696511	5.0	1.069
	35 0.440751	1.660984	4.6	1.062
	40 0.451290	1.634371	4.2	1.056
	45 0.459806	1.613668	4.0	1.051
	50 0.466832	1.597092	3.8	1.048
	55 0.472728	1.583513	3.7	1.045
	60 0.477748	1.572182	3.5	1.043

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
30				
1	0.030532	62.268766	32987.1	4.015
2	0.080584	9.469779	844.5	2.041
3	0.126809	5.187936	197.6	1.635
4	0.166586	3.844127	87.3	1.461
5	0.200425	3.206509	51.0	1.364
6	0.229303	2.837099	34.8	1.302
7	0.254131	2.596488	26.0	1.258
8	0.275662	2.427280	20.7	1.226
9	0.294491	2.301689	17.1	1.201
10	0.311087	2.204675	14.7	1.182
12	0.338993	2.064338	11.5	1.152
14	0.361541	1.967447	9.6	1.132
16	0.380145	1.896335	8.3	1.116
18	0.395763	1.841805	7.3	1.104
20	0.409066	1.798589	6.7	1.095
25	0.435069	1.721484	5.5	1.078
30	0.454087	1.670368	4.8	1.067
35	0.468620	1.633881	4.4	1.059
40	0.480096	1.606474	4.1	1.053
45	0.489394	1.585104	3.9	1.049
50	0.497083	1.567959	3.6	1.045
55	0.503550	1.553889	3.5	1.042
60	0.509065	1.542130	3.4	1.040

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
35				
1	0.032527	62.419594	32505.6	4.014
2	0.084590	9.474654	835.8	2.041
3	0.132522	5.183306	195.7	1.635
4	0.173756	3.836412	86.4	1.461
5	0.208852	3.197095	50.5	1.364
6	0.238829	2.826500	34.4	1.301
7	0.264630	2.584960	25.7	1.258
8	0.287029	2.414974	20.4	1.225
9	0.306640	2.288709	16.9	1.200
10	0.323947	2.191096	14.5	1.181
12	0.353097	2.049725	11.3	1.151
14	0.376703	1.951960	9.4	1.131
16	0.396221	1.880093	8.1	1.115
18	0.412639	1.824898	7.2	1.103
20	0.426650	1.781091	6.5	1.094
25	0.454118	1.702753	5.4	1.076
30	0.474283	1.650659	4.7	1.065
35	0.489742	1.613375	4.3	1.057
40	0.501983	1.585304	3.9	1.051
45	0.511925	1.563372	3.7	1.047
50	0.520165	1.545744	3.5	1.043
55	0.527108	1.531254	3.4	1.040
60	0.533040	1.519127	3.2	1.038

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
40 1	0.034073	62.532957	32198.9	4.014
2	0.087670	9.478299	830.3	2.040
3	0.136909	5.179785	194.5	1.634
4	0.179260	3.830549	85.8	1.461
5	0.215323	3.189932	50.2	1.363
6	0.246150	2.818422	34.1	1.301
7	0.272706	2.576159	25.5	1.257
8	0.295781	2.405564	20.2	1.225
9	0.316004	2.278768	16.8	1.200
10	0.333867	2.180682	14.3	1.180
12	0.363997	2.038487	11.2	1.151
14	0.388442	1.940020	9.3	1.130
16	0.408690	1.867541	8.0	1.114
18	0.425751	1.811805	7.1	1.102
20	0.440333	1.767515	6.4	1.093
25	0.468991	1.688158	5.3	1.075
30	0.490098	1.635248	4.6	1.064
35	0.506325	1.597292	4.2	1.056
40	0.519206	1.568657	3.9	1.050
45	0.529690	1.546243	3.6	1.046
50	0.538396	1.528199	3.4	1.042
55	0.545743	1.513347	3.3	1.039
60	0.552031	1.500899	3.1	1.036

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
45 1	0.035305	62.621270	31990.8	4.014
2	0.090111	9.481127	826.5	2.040
3	0.140381	5.177017	193.6	1.634
4	0.183616	3.822594	85.5	1.460
5	0.220448	3.184298	49.9	1.363
6	0.251951	2.812061	34.0	1.301
7	0.279109	2.569219	25.3	1.257
8	0.302726	2.398136	20.1	1.224
9	0.323440	2.270911	16.7	1.200
10	0.341752	2.172440	14.2	1.180
12	0.372675	2.029574	11.1	1.150
14	0.397802	1.930531	9.2	1.129
16	0.418646	1.857547	7.9	1.114
18	0.436233	1.801362	7.0	1.101
20	0.451287	1.756668	6.4	1.092
25	0.480932	1.676456	5.2	1.075
30	0.502828	1.622855	4.6	1.063
35	0.519703	1.584324	4.1	1.055
40	0.533128	1.555204	3.8	1.049
45	0.544076	1.532374	3.6	1.045
50	0.553181	1.513969	3.4	1.041
55	0.560879	1.498799	3.2	1.038
60	0.567474	1.486071	3.1	1.035

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
50			31844.1	4.014
1	0.036309	62.692010	823.8	2.040
2	0.092092	9.483386	193.0	1.634
3	0.143196	5.174784	85.2	1.460
4	0.187149	3.822228	49.8	1.363
5	0.224606	3.179751	33.8	1.300
6	0.256661	2.806922	25.2	1.257
7	0.284311	2.563607	20.0	1.224
8	0.308371	2.392122	16.6	1.199
9	0.329488	2.264544	14.2	1.179
10	0.348169	2.165755	11.1	1.150
12	0.379746	2.022331	9.2	1.129
14	0.405439	1.922807	7.9	1.113
16	0.426779	1.849399	7.0	1.101
18	0.444807	1.792836	6.3	1.091
20	0.460256	1.747800	5.2	1.074
25	0.490735	1.666860	4.5	1.063
30	0.513302	1.612665	4.1	1.054
35	0.530732	1.573639	3.8	1.048
40	0.544625	1.544096	3.5	1.044
45	0.555974	1.520903	3.3	1.040
50	0.565428	1.502180	3.2	1.037
55	0.573431	1.486730	3.0	1.035
60	0.580297	1.473754		

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
55			31736.0	4.014
1	0.037144	62.749947	821.8	2.040
2	0.093732	9.485231	192.6	1.634
3	0.145526	5.172944	85.0	1.460
4	0.190072	3.819170	49.6	1.363
5	0.228047	3.176005	33.7	1.300
6	0.260559	2.802684	25.2	1.256
7	0.288619	2.558975	20.0	1.224
8	0.313050	2.387154	16.5	1.199
9	0.334504	2.259279	14.1	1.179
10	0.353494	2.160223	11.0	1.149
12	0.385620	2.016328	9.1	1.128
14	0.411789	1.916397	7.9	1.113
16	0.433549	1.842628	7.0	1.101
18	0.451951	1.785742	6.3	1.091
20	0.467736	1.740413	5.2	1.074
25	0.498929	1.658846	4.5	1.062
30	0.522075	1.604135	4.0	1.054
35	0.539985	1.564676	3.7	1.048
40	0.554286	1.534763	3.5	1.043
45	0.565986	1.511249	3.3	1.039
50	0.575746	1.492245	3.1	1.036
55	0.584019	1.476547	3.0	1.034
60	0.591124	1.463349		

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



60	DF	C-1	C-2	A-2/A-1	REDUCTION
	1	0.037848	62.798268	31654.6	4.C14
	2	0.095111	9.486766	820.3	2.040
	3	0.147484	5.171403	192.3	1.634
	4	0.192530	3.816607	84.8	1.460
	5	0.230941	3.172864	49.5	1.363
	6	0.263840	2.799129	33.7	1.300
	7	0.292246	2.555087	25.1	1.256
	8	0.316990	2.382981	19.9	1.224
	9	0.338730	2.254854	16.5	1.199
	10	0.357982	2.155569	14.1	1.179
	12	0.390577	2.011272	11.0	1.149
	14	0.417153	1.910991	9.1	1.128
	16	0.439272	1.836912	7.8	1.113
	18	0.457996	1.779746	6.9	1.100
	20	0.474071	1.734163	6.2	1.091
	25	0.505881	1.652050	5.1	1.073
	30	0.529531	1.596887	4.5	1.062
	35	0.547862	1.557047	4.0	1.054
	40	0.562522	1.526807	3.7	1.047
	45	0.574532	1.503008	3.4	1.043
	50	0.584564	1.483753	3.3	1.039
	55	0.593076	1.467833	3.1	1.036
	60	0.600395	1.454436	3.0	1.033

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	161.447639	*	4.012
2	0.0	18.512821	*	2.080
3	0.0	10.127964	*	1.722
4	0.0	7.708647	*	1.585
5	0.0	6.607891	*	1.514
6	0.0	5.987378	*	1.472
7	0.0	5.591448	*	1.444
8	0.0	5.317655	*	1.424
9	0.0	5.117355	*	1.409
10	0.0	4.964603	*	1.397
12	0.0	4.747225	*	1.380
14	0.0	4.600110	*	1.369
16	0.0	4.493998	*	1.361
18	0.0	4.413873	*	1.354
20	0.0	4.351244	*	1.349
25	0.0	4.241699	*	1.340
30	0.0	4.170877	*	1.335
35	0.0	4.121338	*	1.331
40	0.0	4.084746	*	1.328
45	0.0	4.056612	*	1.325
50	0.0	4.034310	*	1.323
55	0.0	4.016195	*	1.322
60	0.0	4.001191	*	1.321

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.0	199.500000	*	4.007
3	0.0	19.000000	*	2.051
4	0.0	9.552095	*	1.677
5	0.0	6.944272	*	1.530
6	0.0	5.786135	*	1.453
7	0.0	5.143253	*	1.407
8	0.0	4.737414	*	1.375
9	0.0	4.458970	*	1.353
10	0.0	4.256495	*	1.337
12	0.0	3.885294	*	1.305
14	0.0	3.738893	*	1.292
16	0.0	3.633723	*	1.283
18	0.0	3.554557	*	1.276
20	0.0	3.492828	*	1.270
25	0.0	3.385190	*	1.260
30	0.0	3.315930	*	1.254
35	0.0	3.267424	*	1.249
40	0.0	3.231727	*	1.246
45	0.0	3.204317	*	1.243
50	0.0	3.182610	*	1.241
55	0.0	3.164993	*	1.239
60	0.0	3.150411	*	1.238

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESS IVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.0	5.707345	*	4.006
1	0.0	9.164292	*	2.040
2	0.000008	9.276633	1333332.3	1.657
3	0.000025	6.591399	244020.5	1.504
4	0.000051	5.409485	86369.7	1.423
5	0.000093	4.757118	42774.3	1.373
6	0.000118	4.346910	25741.7	1.339
7	0.000153	4.066283	17522.6	1.315
8	0.000188	3.862674	12962.8	1.297
9	0.000222	3.708413	10168.8	1.283
10	0.000286	3.490486	7045.5	1.262
11	0.000343	3.344117	5409.3	1.248
12	0.000394	3.239134	4431.0	1.237
13	0.000438	3.160200	3791.2	1.229
14	0.000477	3.098710	3344.7	1.223
15	0.000558	2.991613	2666.3	1.211
16	0.000619	2.922690	2290.3	1.200
17	0.000668	2.874633	2053.7	1.190
18	0.000706	2.839216	1891.9	1.185
19	0.000738	2.812036	1774.7	1.182
20	0.000765	2.790518	1686.1	1.180
25	0.000787	2.773062	1616.7	1.188
30	0.000806	2.758616	1561.0	1.186

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.0	22.4	*	4.005
1	0.000313	9.246951	127712.9	2.034
2	0.001110	9.117738	12228.7	1.645
3	0.002162	6.389317	3586.3	1.487
4	0.003278	5.193812	1674.4	1.403
5	0.004362	4.535867	993.8	1.350
6	0.005377	4.123013	679.2	1.314
7	0.006308	3.841023	508.0	1.289
8	0.007156	3.636686	403.5	1.269
9	0.007927	3.482035	335.5	1.254
10	0.009262	3.263825	253.0	1.231
11	0.010369	3.117467	206.1	1.216
12	0.011298	3.012602	176.4	1.204
13	0.012085	2.933825	156.1	1.195
14	0.012759	2.872502	141.5	1.188
15	0.014083	2.765798	118.3	1.176
16	0.015051	2.697202	104.8	1.168
17	0.015789	2.649411	96.1	1.162
18	0.016370	2.614213	90.0	1.158
19	0.016838	2.587212	85.5	1.154
20	0.017224	2.565846	82.1	1.152
25	0.017546	2.548517	79.3	1.149
30	0.017821	2.534182	77.1	1.148

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.0	230.161878		4.005
1	0.002199	19.297294	22617.3	2.031
2	0.005652	9.015744	2913.00	1.638
3	0.009434	6.259885	981.27	1.477
4	0.013042	5.055636	495.33	1.389
5	0.016333	4.394034	308.8	1.335
6	0.019282	3.979397	218.2	1.298
7	0.021909	3.696454	167.1	1.271
8	0.024248	3.491578	135.3	1.250
9	0.026335	3.336614	113.9	1.234
10	0.028151	3.118114	87.5	1.210
12	0.032766	2.971675	72.3	1.194
14	0.035151	2.866815	62.4	1.182
16	0.037151	2.788079	55.6	1.172
18	0.038850	2.726313	50.7	1.165
20	0.042151	2.620260	42.7	1.152
25	0.044540	2.551302	38.1	1.145
30	0.046346	2.504127	35.0	1.137
35	0.047759	2.469024	32.9	1.133
40	0.048894	2.442104	31.3	1.129
45	0.049826	2.420806	30.0	1.126
50	0.050604	2.403535	29.1	1.124
55	0.051263	2.389249	28.3	1.122
60				

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.000731	233.9886245	1915707.8	4.005
1	0.005748	19.331483	10265.1	2.028
2	0.012724	8.945006	1508.8	1.633
3	0.019705	6.169935	538.9	1.469
4	0.026097	4.959343	280.7	1.381
5	0.031779	4.294929	178.3	1.325
6	0.036784	3.879804	127.5	1.281
7	0.041139	3.594976	98.3	1.250
8	0.045077	3.389526	80.1	1.237
9	0.048521	3.234165	67.7	1.224
10	0.051433	3.015161	52.3	1.206
12	0.054333	2.868419	43.3	1.199
14	0.056902	2.763357	37.5	1.166
16	0.062882	2.684478	33.4	1.157
18	0.066106	2.623104	30.5	1.149
20	0.068836	2.516371	25.7	1.135
25	0.074120	2.447800	22.9	1.126
30	0.077930	2.400046	21.1	1.120
35	0.080804	2.364886	19.8	1.115
40	0.083047	2.337922	18.8	1.110
45	0.084846	2.316588	17.9	1.109
50	0.086322	2.299288	17.0	1.106
55	0.087553	2.284978		1.104
60	0.088595			

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.0011702	236.768892	965250.0	4.004
1	0.0101655	19.3562225	6652.4	2.026
3	0.020654	8.8929556	1048.5	1.629
4	0.030698	6.103545	385.7	1.464
5	0.039693	4.888024	203.9	1.374
6	0.047588	4.221294	130.6	1.318
7	0.054486	3.803850	93.8	1.279
8	0.060524	3.519169	72.7	1.250
9	0.065830	3.313117	59.2	1.229
10	0.070517	3.157305	50.1	1.212
11	0.078398	2.937657	38.7	1.186
12	0.084745	2.790468	32.1	1.165
13	0.089953	2.685072	27.7	1.156
14	0.094297	2.605931	24.7	1.146
15	0.097973	2.544343	22.5	1.138
16	0.105078	2.437214	18.9	1.124
17	0.110194	2.368367	16.8	1.115
18	0.114049	2.320409	15.5	1.108
19	0.117058	2.285090	14.5	1.103
20	0.119470	2.257999	13.3	1.099
21	0.121444	2.236561	12.3	1.096
22	0.123097	2.219175	11.2	1.094
23	0.124494	2.204791	10.4	1.092

CONFIDENCE LEVEL=.95  
COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.002959	238.883450	633712.6	4.004
1	0.014819	19.374916	5098.6	2.025
3	0.028520	8.852961	837.3	1.627
4	0.041306	6.052382	313.1	1.461
5	0.052616	4.832383	166.8	1.370
6	0.062474	4.164188	107.2	1.313
7	0.071050	3.745563	77.2	1.273
8	0.078535	3.460076	59.3	1.244
9	0.085101	3.253425	48.8	1.222
10	0.090893	3.097143	41.2	1.203
11	0.100620	2.876790	31.9	1.179
12	0.108444	2.729082	26.3	1.161
13	0.114860	2.623293	22.7	1.148
14	0.120211	2.543315	20.2	1.138
15	0.124737	2.481956	18.4	1.130
16	0.128433	2.437431	16.5	1.115
17	0.131397	2.305095	13.7	1.106
18	0.144528	2.256859	12.5	1.099
19	0.148232	2.221322	11.7	1.094
20	0.151203	2.194056	11.1	1.090
21	0.153637	2.172474	10.7	1.087
22	0.155668	2.154967	10.3	1.085
23	0.157389	2.140480	10.0	1.083

CONFIDENCE LEVEL=.95  
COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.004364	240.544259	479845.4	4.004
1	0.019365	19.389503	4276.9	2.024
2	0.035914	8.821216	720.8	1.625
3	0.051110	6.011672	272.2	1.438
4	0.064450	4.788881	145.6	1.367
5	0.076030	4.118495	93.8	1.309
6	0.086081	3.658810	67.5	1.269
7	0.094842	3.412571	52.3	1.240
8	0.102520	3.205345	42.6	1.217
10	0.109290	3.043598	36.0	1.200
12	0.112065	2.827525	27.8	1.174
14	0.112979	2.679272	22.9	1.156
16	0.113729	2.573039	19.8	1.142
18	0.114354	2.493215	17.5	1.133
20	0.114883	2.431057	15.9	1.125
25	0.115905	2.322833	13.3	1.109
30	0.116642	2.253199	11.8	1.099
35	0.117193	2.204644	10.8	1.092
40	0.117631	2.168856	10.1	1.087
45	0.117979	2.141387	9.6	1.084
50	0.118265	2.119638	9.1	1.080
55	0.118503	2.101990	8.8	1.078
60	0.118704	2.087384	8.6	1.076

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.005817	241.882972	395566.6	4.004
1	0.023645	19.401183	3783.8	2.024
2	0.042697	8.795381	648.9	1.624
3	0.060002	5.978473	246.6	1.456
4	0.075120	4.752907	132.2	1.265
5	0.088213	4.081049	85.2	1.206
6	0.099562	3.660411	61.4	1.266
7	0.109448	3.373478	47.5	1.236
8	0.118109	3.165707	38.7	1.214
10	0.125746	3.008513	32.7	1.196
12	0.138566	2.786732	25.1	1.170
14	0.148832	2.637933	20.7	1.151
16	0.157346	2.531259	17.8	1.137
18	0.164408	2.451068	15.8	1.127
20	0.170386	2.388599	14.3	1.119
25	0.181953	2.279771	11.9	1.104
30	0.190294	2.209694	10.5	1.094
35	0.196589	2.160300	9.6	1.087
40	0.201506	2.124745	9.0	1.082
45	0.205453	2.097058	8.5	1.078
50	0.208690	2.075129	8.1	1.075
55	0.211393	2.057330	7.8	1.072
60	0.213683	2.042594	7.6	1.070

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.008637	243.907616	309788.3	4.004
1	0.031226	19.418689	3238.2	2.023
2	0.054414	8.755836	567.1	1.622
3	0.075201	5.927531	217.0	1.454
4	0.093265	4.697534	116.6	1.361
5	0.108871	4.023239	75.2	1.302
6	0.122388	3.600969	54.1	1.262
7	0.134159	3.312811	41.8	1.232
8	0.144476	3.104057	34.0	1.209
9	0.153577	2.946039	28.6	1.191
10	0.168870	2.722927	22.0	1.164
11	0.181192	2.573079	18.0	1.145
12	0.191318	2.465545	15.4	1.131
13	0.199778	2.384633	13.7	1.120
14	0.206950	2.321547	12.4	1.112
15	0.220850	2.211504	10.2	1.096
16	0.230899	2.140528	9.0	1.086
17	0.238496	2.090941	8.2	1.079
18	0.244441	2.054334	7.6	1.074
19	0.249219	2.026198	7.2	1.070
20	0.253141	2.000385	6.9	1.067
21	0.256420	1.985779	6.6	1.064
22	0.259200	1.970774	6.4	1.062

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.011187	245.365808	268383.3	4.004
1	0.037548	19.431156	2954.1	2.022
2	0.063978	8.726964	523.3	1.621
3	0.087502	5.890237	200.9	1.452
4	0.107891	4.656857	108.0	1.356
5	0.125493	3.980629	69.6	1.300
6	0.140740	3.557019	50.0	1.259
7	0.154025	3.267327	38.6	1.228
8	0.165676	3.058223	31.3	1.205
9	0.175964	2.899482	26.4	1.187
10	0.193273	2.675178	20.1	1.160
11	0.207246	2.524371	16.5	1.141
12	0.218747	2.416040	14.1	1.126
13	0.228373	2.334451	12.4	1.115
14	0.236543	2.270782	11.2	1.107
15	0.252415	2.159577	9.1	1.091
16	0.263918	2.087731	8.1	1.081
17	0.272634	2.037466	7.3	1.074
18	0.279466	2.000316	6.8	1.069
19	0.284964	1.971734	6.4	1.065
20	0.289485	1.949060	6.1	1.061
21	0.293266	1.920630	5.9	1.059
22	0.296476	1.915354	5.7	1.057

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
16				
1	0.013421	246.465937	245097.0	4.004
2	0.042812	19.440474	2785.4	2.022
3	0.071835	8.704944	496.8	1.620
4	0.097556	5.861737	191.1	1.451
5	0.119822	4.625686	102.8	1.358
6	0.139042	3.947889	66.1	1.298
7	0.155699	3.523164	47.5	1.257
8	0.170224	3.233094	36.6	1.226
9	0.182974	3.022759	29.7	1.203
10	0.194242	2.863385	24.9	1.184
12	0.213228	2.638026	19.0	1.157
14	0.228582	2.486358	15.5	1.138
16	0.241242	2.377304	13.2	1.123
18	0.251855	2.295096	11.6	1.112
20	0.260876	2.230890	10.5	1.103
25	0.278438	2.118604	8.6	1.088
30	0.291201	2.045938	7.5	1.077
35	0.300893	1.995031	6.8	1.070
40	0.308502	1.957363	6.3	1.065
45	0.314636	1.928354	5.9	1.061
50	0.319684	1.905321	5.6	1.057
55	0.323913	1.886587	5.4	1.055
60	0.327505	1.871049	5.2	1.052

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
18				
1	0.015361	247.325394	230413.7	4.004
2	0.047224	19.447697	2676.4	2.022
3	0.078363	8.687592	479.5	1.620
4	0.105885	5.839241	184.6	1.450
5	0.129694	4.601027	99.2	1.357
6	0.150252	3.921932	63.8	1.297
7	0.168079	3.496267	45.8	1.255
8	0.183637	3.205446	35.2	1.225
9	0.197306	2.994477	28.5	1.201
10	0.209398	2.834552	24.0	1.183
12	0.229799	2.608261	18.2	1.155
14	0.246328	2.455824	14.8	1.135
16	0.259980	2.346119	12.6	1.121
18	0.271441	2.263349	11.1	1.110
20	0.281197	2.198651	10.0	1.101
25	0.300228	2.085370	8.2	1.085
30	0.314095	2.011944	7.1	1.074
35	0.324648	1.960435	6.4	1.067
40	0.332948	1.922279	5.9	1.062
45	0.339647	1.892867	5.5	1.057
50	0.345169	1.869494	5.3	1.054
55	0.349798	1.850470	5.0	1.051
60	0.353735	1.834682	4.9	1.049

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
20	1 0.017044	248.015333	220652.1	4.004
	2 0.050958	19.453458	2601.5	2.022
	3 0.083855	8.673564	467.5	1.619
	4 0.112876	5.821029	180.1	1.450
	5 0.137976	4.581028	96.8	1.356
	6 0.159657	3.900841	62.2	1.296
	7 0.178471	3.474375	44.6	1.254
	8 0.194903	3.182906	34.3	1.224
	9 0.209353	2.971385	27.7	1.200
	10 0.222146	2.810976	23.3	1.181
	12 0.243760	2.583861	17.7	1.153
	14 0.261300	2.430736	14.3	1.134
	16 0.275809	2.320444	12.2	1.119
	18 0.288008	2.237166	10.7	1.108
	20 0.298406	2.172022	9.6	1.099
	25 0.318729	2.057828	7.8	1.083
	30 0.333357	1.983700	6.8	1.072
	35 0.344893	1.931631	6.1	1.065
	40 0.353812	1.893019	5.6	1.059
	45 0.361021	1.863227	5.3	1.055
	50 0.366969	1.839334	5.0	1.052
	55 0.371962	1.820236	4.8	1.049
	60 0.376212	1.804210	4.6	1.047

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
25	1 0.020379	249.262493	206525.2	4.004
	2 0.058148	19.463783	2491.3	2.021
	3 0.094335	8.647976	449.6	1.619
	4 0.126216	5.787751	173.3	1.449
	5 0.153774	4.544395	93.1	1.355
	6 0.177605	3.862115	59.7	1.295
	7 0.198318	3.434084	42.7	1.253
	8 0.216441	3.141331	32.8	1.222
	9 0.232410	2.928704	26.5	1.198
	10 0.246574	2.767315	22.2	1.179
	12 0.270572	2.538511	16.8	1.151
	14 0.290118	2.383963	13.6	1.131
	16 0.306342	2.272444	11.5	1.116
	18 0.320026	2.188092	10.1	1.105
	20 0.331723	2.121998	9.0	1.095
	25 0.354688	2.005845	7.3	1.079
	30 0.371556	1.930187	6.3	1.068
	35 0.384479	1.876889	5.7	1.061
	40 0.394700	1.837266	5.2	1.055
	45 0.402990	1.806628	4.9	1.051
	50 0.409849	1.782216	4.6	1.047
	55 0.415620	1.762299	4.4	1.045
	60 0.420544	1.745736	4.2	1.042

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
30 1	0.022826	250.097660	199440.6	4.004
2	0.063280	19.470631	2433.7	2.021
3	0.101803	8.630669	440.2	1.618
4	0.135662	5.765198	169.7	1.448
5	0.164961	4.519501	91.1	1.354
6	0.190326	3.835727	58.4	1.294
7	0.212401	3.406556	41.7	1.252
8	0.231746	3.112854	32.0	1.221
9	0.248816	2.899399	25.8	1.197
10	0.263983	2.737269	21.6	1.178
12	0.289736	2.507172	16.3	1.146
14	0.310774	2.351519	13.2	1.129
16	0.328286	2.239036	11.1	1.114
18	0.343094	2.153332	9.7	1.103
20	0.355784	2.086979	8.7	1.093
25	0.380789	1.969238	7.0	1.077
30	0.399244	1.892321	6.0	1.066
35	0.413439	1.837998	5.4	1.058
40	0.424705	1.797525	4.9	1.053
45	0.433868	1.766168	4.6	1.048
50	0.441471	1.741141	4.3	1.045
55	0.447832	1.720692	4.1	1.042
60	0.453362	1.703662	4.0	1.040

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
35 1	0.024685	250.696016	195235.2	4.004
2	0.067114	19.475504	2399.8	2.021
3	0.107346	8.618183	434.5	1.618
4	0.142687	5.748904	167.5	1.448
5	0.173284	4.501481	89.9	1.354
6	0.199796	3.816586	57.6	1.293
7	0.222896	3.386349	41.1	1.251
8	0.243164	3.092119	31.5	1.220
9	0.261072	2.878023	25.4	1.196
10	0.277002	2.715314	21.2	1.177
12	0.304102	2.484201	16.0	1.148
14	0.326295	2.327669	12.9	1.128
16	0.344811	2.214413	10.9	1.113
18	0.360502	2.128520	9.5	1.101
20	0.373975	2.061048	8.5	1.092
25	0.400607	1.942002	6.8	1.076
30	0.420343	1.864036	5.9	1.065
35	0.435576	1.808852	5.2	1.057
40	0.447703	1.767655	4.8	1.051
45	0.457592	1.735684	4.4	1.046
50	0.465815	1.710127	4.2	1.043
55	0.472764	1.689216	4.0	1.040
60	0.478714	1.671781	3.8	1.038

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
40				
1	0.026140	251.145764	192603.0	4.004
2	0.070032	19.479148	2378.1	2.021
3	0.111627	8.608749	430.9	1.618
4	0.148110	5.736580	166.1	1.448
5	0.179710	4.487831	89.1	1.353
6	0.207114	3.802066	57.1	1.293
7	0.231013	3.371350	40.7	1.251
8	0.252003	3.076342	31.2	1.220
9	0.270568	2.861736	25.1	1.195
10	0.287101	2.698565	21.0	1.176
12	0.315268	2.466632	15.8	1.148
14	0.338381	2.309386	12.7	1.128
16	0.357702	2.195497	10.7	1.112
18	0.374104	2.109038	9.4	1.101
20	0.388213	2.041054	8.3	1.091
25	0.416175	1.920918	6.7	1.074
30	0.436969	1.842068	5.7	1.063
35	0.453068	1.786150	5.1	1.056
40	0.465917	1.744334	4.7	1.050
45	0.476419	1.711832	4.3	1.045
50	0.485171	1.685815	4.1	1.042
55	0.492579	1.664501	3.9	1.039
60	0.498933	1.646710	3.7	1.036

CONFIDENCE LEVEL=.95

COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
45				
1	0.027309	251.496148	190838.7	4.004
2	0.072445	19.481977	2363.3	2.021
3	0.115030	8.601370	428.4	1.618
4	0.152420	5.726932	165.1	1.448
5	0.184820	4.477133	88.5	1.353
6	0.212936	3.790672	56.7	1.293
7	0.237476	3.359409	40.5	1.250
8	0.259046	3.063935	31.0	1.215
9	0.278141	2.848913	24.9	1.195
10	0.295160	2.685363	20.8	1.176
12	0.324194	2.452756	15.7	1.147
14	0.348058	2.294919	12.6	1.127
16	0.368039	2.180504	10.6	1.112
18	0.385028	2.093571	9.3	1.100
20	0.399662	2.025157	8.2	1.091
25	0.428733	1.904099	6.6	1.074
30	0.450416	1.824494	5.7	1.063
35	0.467248	1.767944	5.0	1.055
40	0.480713	1.725591	4.6	1.049
45	0.491743	1.692626	4.2	1.044
50	0.500950	1.666206	4.0	1.041
55	0.508756	1.644538	3.8	1.038
60	0.515462	1.626433	3.6	1.035

CONFIDENCE LEVEL=.95

COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
50	1 0.028267	251.776818	189608.4	4.004
	2 0.074371	19.484235	2352.8	2.021
	3 0.117799	8.595441	426.7	1.618
	4 0.155927	5.719175	164.5	1.448
	5 0.188979	4.468523	88.2	1.353
	6 0.217677	3.781493	56.4	1.293
	7 0.242741	3.349780	40.3	1.250
	8 0.264783	3.053920	30.8	1.219
	9 0.284320	2.838553	24.8	1.195
	10 0.301741	2.674689	20.7	1.176
	12 0.331492	2.441517	15.6	1.147
	14 0.355981	2.283184	12.5	1.127
	16 0.376512	2.168324	10.6	1.111
	18 0.393993	2.080989	9.2	1.100
	20 0.409070	2.012210	8.2	1.090
	25 0.439079	1.890361	6.5	1.073
	30 0.461521	1.810104	5.6	1.062
	35 0.478983	1.753006	5.0	1.054
	40 0.492931	1.710184	4.5	1.048
	45 0.504468	1.676813	4.2	1.043
	50 0.514073	1.650037	3.9	1.040
	55 0.522228	1.628054	3.7	1.037
	60 0.529243	1.609669	3.5	1.034

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
55	1 0.029066	252.006697	188678.2	4.004
	2 0.075970	19.486080	2345.1	2.021
	3 0.120096	8.590572	425.4	1.618
	4 0.158835	5.712801	164.0	1.448
	5 0.192429	4.461443	87.9	1.353
	6 0.221612	3.773940	56.3	1.292
	7 0.247114	3.341851	40.1	1.250
	8 0.269559	3.045666	30.7	1.219
	9 0.289456	2.830009	24.7	1.195
	10 0.307214	2.665879	20.6	1.175
	12 0.337569	2.432229	15.5	1.147
	14 0.362586	2.273473	12.5	1.126
	16 0.383585	2.158232	10.5	1.111
	18 0.401484	2.070552	9.1	1.099
	20 0.416939	2.001457	8.1	1.090
	25 0.447752	1.878925	6.5	1.073
	30 0.470850	1.798100	5.5	1.061
	35 0.488859	1.740520	4.9	1.053
	40 0.503323	1.697285	4.5	1.047
	45 0.515211	1.663554	4.1	1.043
	50 0.525166	1.636462	3.9	1.039
	55 0.533631	1.614199	3.7	1.036
	60 0.540921	1.595563	3.5	1.034

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
60 1	0.029742	252.198426	187968.9	4.004
2	0.077318	19.487615	2339.2	2.021
3	0.122031	8.586503	424.4	1.618
4	0.161286	5.707472	163.6	1.447
5	0.195337	4.455520	87.7	1.353
6	0.224929	3.767616	56.1	1.292
7	0.250802	3.335207	40.0	1.250
8	0.273586	3.038746	30.6	1.219
9	0.293794	2.822841	24.6	1.194
10	0.311839	2.658483	20.5	1.175
12	0.342709	2.424422	15.4	1.147
14	0.368177	2.265301	12.4	1.126
16	0.389578	2.149732	10.4	1.111
18	0.407837	2.061753	9.1	1.095
20	0.423618	1.992383	8.1	1.089
25	0.455130	1.869253	6.5	1.072
30	0.478800	1.787929	5.5	1.061
35	0.497289	1.729924	4.9	1.053
40	0.512163	1.686321	4.4	1.047
45	0.524406	1.652270	4.1	1.042
50	0.534673	1.624895	3.8	1.039
55	0.543413	1.602380	3.6	1.036
60	0.550948	1.583519	3.5	1.033

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	647.789011	*	4.003
2	0.0	38.506329	*	2.039
3	0.0	17.443443	*	1.667
4	0.0	12.217863	*	1.524
5	0.0	10.006982	*	1.451
6	0.0	8.813101	*	1.407
7	0.0	8.072669	*	1.378
8	0.0	7.570882	*	1.358
9	0.0	7.209283	*	1.342
10	0.0	6.936728	*	1.331
12	0.0	6.553769	*	1.314
14	0.0	6.297939	*	1.302
16	0.0	6.115127	*	1.294
18	0.0	5.978052	*	1.288
20	0.0	5.871494	*	1.283
25	0.0	5.686366	*	1.274
30	0.0	5.567535	*	1.268
35	0.0	5.484820	*	1.264
40	0.0	5.423937	*	1.261
45	0.0	5.377254	*	1.259
50	0.0	5.340323	*	1.257
55	0.0	5.310379	*	1.256
60	0.0	5.285611	*	1.255

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.0	799.500000	*	4.002
3	0.0	39.000000	*	2.025
4	0.0	16.044106	*	1.642
5	0.0	10.649111	*	1.491
6	0.0	8.433621	*	1.413
7	0.0	7.259856	*	1.366
8	0.0	6.541520	*	1.334
9	0.0	6.059467	*	1.312
10	0.0	5.714705	*	1.295
12	0.0	5.456396	*	1.283
14	0.0	5.095367	*	1.264
16	0.0	4.856698	*	1.252
18	0.0	4.686665	*	1.242
20	0.0	4.559672	*	1.235
25	0.0	4.461256	*	1.230
30	0.0	4.290932	*	1.220
35	0.0	4.182061	*	1.214
40	0.0	4.106496	*	1.210
45	0.0	4.050992	*	1.206
50	0.0	4.008502	*	1.204
55	0.0	3.974931	*	1.202
60	0.0	3.947739	*	1.200
		3.925265	*	1.199

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2 / A-1	REDUCTION
3	0.0	864.162973	*	4.002
1	0.0	39.165495	*	2.020
2	0.0	15.439182	*	1.631
3	0.0	9.579199	*	1.476
4	0.000007	7.763594	788642.5	1.394
5	0.000013	6.598807	339212.0	1.344
6	0.000020	5.889832	184228.9	1.311
7	0.000027	5.415981	116278.1	1.287
8	0.000035	5.078142	81010.0	1.270
9	0.000043	4.825650	60561.0	1.256
10	0.000058	4.474223	39037.1	1.236
12	0.000071	4.241775	28446.5	1.222
14	0.000084	4.076879	22406.5	1.212
16	0.000096	3.953927	18591.9	1.204
18	0.000106	3.858769	16003.1	1.198
20	0.000128	3.694358	12202.5	1.187
25	0.000144	3.589455	10174.4	1.181
30	0.000153	3.516736	8929.8	1.176
35	0.000169	3.463372	8095.9	1.172
40	0.000178	3.422549	7499.8	1.169
45	0.000186	3.390312	7053.3	1.167
50	0.000192	3.364213	6708.2	1.165
55	0.000198	3.342651	6432.7	1.164
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2 / A-1	REDUCTION
4	0.0	899.583310	*	4.001
1	0.000078	39.248457	1024589.2	2.018
2	0.000349	15.101153	61819.0	1.624
3	0.000762	9.604911	14390.8	1.466
4	0.001238	7.388505	5844.8	1.382
5	0.001726	6.223025	3159.2	1.330
6	0.002199	5.533696	2018.3	1.295
7	0.002646	5.053958	1434.4	1.270
8	0.003062	4.719613	1095.9	1.251
9	0.003447	4.470069	881.4	1.236
10	0.004126	4.123277	632.9	1.214
12	0.004701	3.894272	497.8	1.199
14	0.005191	3.732020	414.9	1.188
16	0.005611	3.611158	359.6	1.180
18	0.005974	3.517691	320.5	1.173
20	0.006695	3.356367	259.9	1.162
25	0.007230	3.253552	225.7	1.154
30	0.007641	3.182338	203.3	1.149
35	0.007966	3.130110	188.8	1.145
40	0.008230	3.090175	177.8	1.141
45	0.008448	3.058652	169.4	1.139
50	0.008632	3.033139	162.9	1.137
55	0.008788	3.012067	157.6	1.135
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.0	921.847903	#	4.001
1	0.000866	39.298575	115206.4	2.016
2	0.002588	14.885863	10164.5	1.620
3	0.004644	9.366342	2833.4	1.459
4	0.006713	7.149091	1275.6	1.373
5	0.008664	5.991067	736.3	1.319
6	0.010454	5.289467	492.0	1.283
7	0.012077	4.822166	361.2	1.257
8	0.013542	4.489859	282.8	1.237
9	0.014865	4.242111	231.8	1.221
10	0.017141	3.898087	171.1	1.199
12	0.019020	3.671141	137.0	1.182
14	0.020589	3.510473	115.7	1.171
16	0.021916	3.390864	101.3	1.162
18	0.023051	3.298413	91.0	1.155
20	0.025276	3.138944	74.8	1.143
25	0.026901	3.037385	65.4	1.134
30	0.028138	2.967077	59.5	1.129
35	0.029111	2.915335	55.3	1.124
40	0.029895	2.876136	52.2	1.121
45	0.030541	2.845044	49.9	1.118
50	0.031082	2.819384	48.1	1.116
55	0.031541	2.799108	46.6	1.114
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.0	937.111084	#	4.001
1	0.002825	39.332408	42122.0	2.015
2	0.006968	14.737077	4424.0	1.617
3	0.011338	9.201186	1335.1	1.454
4	0.015583	6.983025	627.8	1.366
5	0.019403	5.826402	372.1	1.312
6	0.022826	5.126430	253.1	1.274
7	0.025880	4.660589	138.1	1.247
8	0.028603	4.329562	148.5	1.227
9	0.031038	4.082817	122.5	1.211
10	0.033188	3.740418	91.2	1.187
12	0.035798	3.514665	73.4	1.171
14	0.041390	3.354903	62.2	1.156
16	0.043755	3.236004	54.6	1.149
18	0.045770	3.144123	49.1	1.142
20	0.049698	2.985580	40.4	1.129
25	0.052553	2.884804	35.4	1.120
30	0.054719	2.814984	32.2	1.114
35	0.056417	2.763805	30.0	1.110
40	0.057734	2.724689	28.3	1.106
45	0.058908	2.693823	27.0	1.104
50	0.059847	2.668847	26.0	1.101
55	0.060645	2.648224	25.2	1.099
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.0	948.216889	*	4.001
1	0.005681	39.356861	24167.6	2.014
2	0.012556	14.628099	2790.0	1.615
3	0.019468	9.079931	877.4	1.451
4	0.025833	6.860803	421.6	1.362
5	0.031526	5.704938	253.1	1.306
6	0.036571	5.005922	173.4	1.268
7	0.041036	4.540943	129.5	1.241
8	0.044996	4.210641	102.6	1.220
9	0.048521	3.964497	84.8	1.203
10	0.051502	3.623013	63.3	1.179
12	0.059367	3.397912	51.0	1.162
14	0.063390	3.238629	43.2	1.150
16	0.066757	3.120094	37.9	1.140
18	0.069638	3.028498	34.1	1.132
20	0.07226	2.870549	28.0	1.119
25	0.079279	2.769985	24.5	1.110
30	0.082351	2.700377	22.3	1.104
35	0.084757	2.649353	20.7	1.099
40	0.086692	2.610352	19.5	1.096
45	0.088282	2.579576	18.6	1.093
50	0.089611	2.554673	17.9	1.090
55	0.090738	2.534108	17.4	1.088
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.0	956.656221	*	4.001
1	0.008997	39.375352	17168.2	2.013
2	0.018548	14.544775	2097.7	1.613
3	0.027818	8.986995	675.6	1.448
4	0.036209	6.766895	328.5	1.359
5	0.043642	5.611400	198.4	1.303
6	0.050189	4.912930	136.5	1.264
7	0.055960	4.448446	102.1	1.236
8	0.061063	4.118552	81.0	1.215
9	0.065596	3.872737	67.0	1.198
10	0.073273	3.531731	50.0	1.173
12	0.079505	3.306944	40.2	1.156
14	0.084653	3.147875	34.1	1.143
16	0.088970	3.029489	29.9	1.133
18	0.092640	2.937999	26.8	1.125
20	0.099777	2.780207	22.0	1.111
25	0.104953	2.679720	19.2	1.102
30	0.108873	2.610151	17.4	1.096
35	0.111944	2.559146	16.1	1.091
40	0.114414	2.520154	15.2	1.087
45	0.116443	2.489381	14.5	1.084
50	0.118140	2.464477	13.9	1.082
55	0.119579	2.443909	13.5	1.080
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.0	963.284579	*	4.001
1	0.012452	39.389805	13690.1	2.013
2	0.024479	14.478956	1735.0	1.612
3	0.035894	8.913417	567.0	1.446
4	0.046118	6.692378	277.6	1.356
5	0.055123	5.537019	168.2	1.300
6	0.063028	4.838840	115.9	1.261
7	0.069980	4.374623	86.8	1.232
8	0.076119	4.044939	68.8	1.211
9	0.081568	3.799283	56.9	1.193
10	0.087078	3.58481	42.4	1.168
12	0.098268	3.233797	34.1	1.151
14	0.104445	3.074775	28.8	1.138
16	0.109626	2.956402	25.2	1.128
18	0.114030	2.864906	22.6	1.120
20	0.122597	2.707059	18.3	1.105
25	0.128811	2.606499	16.1	1.096
30	0.133520	2.536857	14.6	1.090
35	0.137210	2.485784	13.5	1.085
40	0.140179	2.446732	12.7	1.081
45	0.142619	2.415904	12.1	1.078
50	0.144658	2.390952	11.6	1.076
55	0.146389	2.370342	11.2	1.074
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.0	968.627443	*	4.001
1	0.015856	39.401357	11688.9	2.012
2	0.030120	14.425622	1518.5	1.611
3	0.043457	8.853677	501.0	1.445
4	0.055323	6.631750	246.3	1.354
5	0.065737	5.476386	149.5	1.297
6	0.074839	4.778339	103.1	1.258
7	0.082874	4.314242	77.2	1.229
8	0.089948	3.984643	61.2	1.207
9	0.096224	3.739039	50.5	1.190
10	0.106840	3.539266	37.6	1.165
12	0.115455	3.173552	30.2	1.147
14	0.122572	3.014471	25.5	1.134
16	0.128543	2.896025	22.3	1.123
18	0.133620	2.804451	19.9	1.115
20	0.143503	2.646414	16.2	1.101
25	0.150678	2.545584	14.1	1.091
30	0.156118	2.475856	12.7	1.085
35	0.160334	2.424700	11.8	1.080
40	0.163818	2.385541	11.1	1.076
45	0.166640	2.354623	10.5	1.073
50	0.169001	2.332952	10.0	1.071
55	0.171006	2.308913	9.8	1.069
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
12 1	0.005443	976.708912	2032519.3	4.001
2	0.022164	39.418800	9558.9	2.012
3	0.040226	14.344419	1280.00	1.610
4	0.056812	8.762491	427.0	1.443
5	0.071455	6.538971	210.8	1.352
6	0.084259	5.383372	128.2	1.294
7	0.095457	4.685318	88.3	1.255
8	0.105288	4.221216	66.1	1.225
9	0.113964	3.891575	52.3	1.203
10	0.121664	3.645891	43.1	1.185
12	0.134698	3.304832	32.0	1.159
14	0.145288	3.079885	25.6	1.141
16	0.154047	2.920508	21.5	1.128
18	0.161405	2.801773	18.8	1.117
20	0.167670	2.709923	16.7	1.109
25	0.179886	2.551276	13.6	1.094
30	0.188775	2.450043	11.7	1.084
35	0.195529	2.379841	10.5	1.078
40	0.200832	2.328300	9.7	1.073
45	0.205106	2.288853	9.1	1.069
50	0.208624	2.257688	8.6	1.066
55	0.211569	2.232445	8.2	1.063
60	0.214070	2.211582	8.0	1.061

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
14 1	0.007468	982.528976	1677851.3	4.001
2	0.027644	39.431217	8488.3	2.012
3	0.048752	14.285479	1156.1	1.609
4	0.067945	8.696121	387.9	1.442
5	0.084824	6.471241	191.8	1.350
6	0.099562	5.315278	116.6	1.292
7	0.112448	4.617040	80.3	1.252
8	0.123765	4.152771	60.0	1.223
9	0.133757	3.822946	47.4	1.200
10	0.142632	3.577062	39.1	1.182
12	0.157674	3.235631	28.9	1.156
14	0.169916	3.010209	23.0	1.137
16	0.180059	2.850425	19.3	1.124
18	0.188594	2.731311	16.8	1.113
20	0.195871	2.639113	15.0	1.104
25	0.210091	2.479714	12.1	1.089
30	0.220466	2.377876	10.4	1.080
35	0.228366	2.307183	9.3	1.073
40	0.234580	2.255237	8.5	1.067
45	0.239595	2.215449	8.0	1.063
50	0.243728	2.183996	7.6	1.060
55	0.247192	2.158505	7.2	1.058
60	0.250137	2.137428	7.0	1.056

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.009322	986.919989	1488094.2	4.001
1	0.032327	39.440508	7866.3	2.011
2	0.055910	14.240734	1082.5	1.609
3	0.077224	8.645622	364.3	1.441
4	0.095932	6.419584	180.3	1.349
5	0.112259	5.263226	109.6	1.291
6	0.126539	4.564735	75.4	1.250
7	0.139088	4.100232	56.3	1.221
8	0.150178	3.770168	44.4	1.198
9	0.160037	3.524040	36.5	1.180
10	0.176769	3.182119	26.9	1.153
12	0.190412	2.956225	21.4	1.135
14	0.201736	2.796001	17.9	1.121
16	0.211280	2.676482	15.5	1.110
18	0.219429	2.583912	13.8	1.101
20	0.235390	2.423722	11.1	1.086
25	0.247067	2.321251	9.5	1.076
30	0.255978	2.250043	8.5	1.069
35	0.263000	2.197671	7.8	1.064
40	0.268677	2.157527	7.3	1.060
45	0.273360	2.125771	6.9	1.056
50	0.277290	2.100021	6.6	1.054
55	0.280634	2.078717	6.3	1.052

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.010981	990.350454	1366119.2	4.001
1	0.036327	39.447716	7469.7	2.011
2	0.061949	14.205599	1034.9	1.608
3	0.085018	8.605399	349.0	1.440
4	0.105244	6.378871	172.8	1.348
5	0.122898	5.222123	104.9	1.290
6	0.138346	4.523359	72.1	1.249
7	0.151932	4.058600	53.8	1.220
8	0.163949	3.728282	42.4	1.197
9	0.174642	3.481859	34.8	1.179
10	0.192815	3.139475	25.6	1.152
12	0.207661	2.913107	20.3	1.133
14	0.220004	2.752443	17.0	1.119
16	0.230423	2.632520	14.7	1.108
18	0.239333	2.539583	13.0	1.099
20	0.256821	2.378608	10.4	1.083
25	0.269649	2.275308	8.9	1.073
30	0.279461	2.203788	7.9	1.066
35	0.287207	2.150992	7.3	1.061
40	0.293478	2.110492	6.8	1.057
45	0.298659	2.078433	6.4	1.053
50	0.303011	2.052422	6.1	1.051
55	0.306718	2.030893	5.8	1.049

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
20				
1	0.012454	993.104343	1288658.8	4.001
2	0.039759	39.453467	7199.9	2.011
3	0.067087	14.177276	1002.1	1.608
4	0.091628	8.573830	338.3	1.440
5	0.113134	6.345949	167.5	1.348
6	0.131910	5.188833	101.7	1.239
7	0.148350	4.489797	69.8	1.248
8	0.162820	4.024783	52.0	1.219
9	0.175630	3.694213	41.0	1.196
10	0.187039	3.447578	33.6	1.177
12	0.206455	3.104667	24.7	1.150
14	0.222344	2.877839	19.6	1.131
16	0.235575	2.716752	16.3	1.117
18	0.246761	2.596442	14.1	1.106
20	0.256340	2.503151	12.5	1.097
25	0.275180	2.341420	10.0	1.081
30	0.289036	2.237713	8.5	1.071
35	0.299656	2.165496	7.5	1.064
40	0.308055	2.112288	6.9	1.059
45	0.314865	2.071441	6.4	1.054
50	0.320498	2.039087	6.0	1.051
55	0.325235	2.012820	5.7	1.048
60	0.329274	1.991068	5.5	1.046

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
25				
1	0.015446	998.082475	1184833.1	4.001
2	0.046471	39.463780	6807.3	2.011
3	0.077042	14.125799	953.3	1.608
4	0.104395	8.515431	322.5	1.439
5	0.128360	6.285869	159.6	1.347
6	0.149303	5.127953	96.8	1.288
7	0.167669	4.428295	66.4	1.247
8	0.183865	3.962695	49.4	1.217
9	0.198232	3.631546	38.3	1.194
10	0.211053	3.384341	31.8	1.175
12	0.232937	3.040327	23.3	1.148
14	0.250914	2.812467	18.4	1.129
16	0.265939	2.650427	15.3	1.114
18	0.278683	2.529244	13.1	1.103
20	0.289629	2.435154	11.6	1.094
25	0.311259	2.271710	9.2	1.078
30	0.327261	2.166615	7.8	1.068
35	0.339586	2.093257	6.9	1.060
40	0.349373	2.039097	6.3	1.055
45	0.357336	1.997443	5.8	1.050
50	0.363942	1.964398	5.5	1.047
55	0.369512	1.937533	5.2	1.044
60	0.374273	1.915258	5.0	1.042

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
30 1	0.017695	1001.416185	1126125.1	4.001
2	0.051337	39.470623	6604.2	2.011
3	0.084196	14.091119	928.5	1.607
4	0.113547	8.476001	314.1	1.439
5	0.139268	6.245207	155.4	1.346
6	0.161771	5.086650	94.2	1.287
7	0.181533	4.386472	64.5	1.246
8	0.198987	3.920379	47.9	1.216
9	0.214495	3.588745	37.6	1.193
10	0.228357	3.341063	30.8	1.174
12	0.252076	2.996128	22.5	1.147
14	0.271621	2.767406	17.7	1.127
16	0.288005	2.604568	14.7	1.112
18	0.301941	2.482651	12.6	1.101
20	0.313942	2.387887	11.1	1.092
25	0.337747	2.222986	8.8	1.076
30	0.355448	2.115698	7.4	1.065
35	0.369139	2.042351	6.5	1.058
40	0.380051	1.987357	5.9	1.052
45	0.388956	1.944993	5.5	1.048
50	0.396364	1.911335	5.1	1.044
55	0.402625	1.883936	4.8	1.042
60	0.407987	1.861192	4.6	1.039

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
35 1	0.019430	1003.804665	1096490.2	4.001
2	0.055509	39.475494	6485.1	2.011
3	0.089566	14.066165	913.5	1.607
4	0.120406	8.447587	309.2	1.439
5	0.147445	6.215852	152.9	1.346
6	0.171122	5.056781	92.6	1.287
7	0.191941	4.356175	63.4	1.246
8	0.210332	3.889673	47.0	1.215
9	0.226732	3.557638	36.9	1.193
10	0.241394	3.309560	30.2	1.173
12	0.266530	2.963863	22.0	1.146
14	0.287297	2.734425	17.3	1.126
16	0.304748	2.570922	14.3	1.111
18	0.319625	2.448351	12.3	1.100
20	0.332464	2.353060	10.8	1.091
25	0.358016	2.186926	8.5	1.075
30	0.377098	2.079618	7.2	1.064
35	0.391912	2.004417	6.3	1.056
40	0.403735	1.948699	5.7	1.050
45	0.413448	1.905713	5.2	1.046
50	0.421530	1.871516	4.9	1.043
55	0.428376	1.843645	4.6	1.040
60	0.434249	1.820484	4.4	1.037

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
40	0.020803	1005.599967	1077585.2	4.001
1	0.057870	39.479137	64009.1	2.011
2	0.093737	14.047349	9003.9	1.607
3	0.125731	8.426136	3005.9	1.439
4	0.153792	6.193663	1511.3	1.346
5	0.178386	5.033417	911.6	1.287
6	0.200032	4.333212	62.6	1.245
7	0.219195	3.866371	46.5	1.215
8	0.236264	3.534001	36.4	1.192
9	0.251559	3.285595	29.8	1.173
10	0.267782	3.093261	21.7	1.145
11	0.289956	2.709225	17.0	1.125
12	0.317878	2.545164	14.1	1.111
13	0.333518	2.422116	12.2	1.109
14	0.347040	2.326306	10.6	1.090
15	0.374027	2.159121	8.3	1.074
16	0.394256	2.050939	7.0	1.062
17	0.410009	1.974998	6.1	1.055
18	0.422640	1.918649	5.5	1.049
19	0.433001	1.875118	5.1	1.045
20	0.441660	1.840446	4.7	1.041
25	0.449008	1.812157	4.3	1.038
30	0.455323	1.788625	4.3	1.036

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
45	0.021914	1006.998639	1063828.8	4.001
1	0.060161	39.481964	6357.6	2.011
2	0.097058	14.032654	897.4	1.607
3	0.129980	8.409368	300.7	1.438
4	0.158859	6.176299	150.1	1.346
5	0.184188	5.016462	90.9	1.286
6	0.206499	4.315206	62.1	1.245
7	0.226269	3.848079	46.1	1.215
8	0.243895	3.515429	36.1	1.191
9	0.259703	3.266746	29.5	1.173
10	0.286886	2.919877	21.4	1.145
11	0.309432	2.689335	16.8	1.125
12	0.328450	2.524802	13.9	1.110
13	0.344721	2.401313	11.9	1.099
14	0.358810	2.305095	10.5	1.089
15	0.386998	2.137009	8.2	1.073
16	0.408194	2.028069	6.9	1.062
17	0.424747	1.951486	6.0	1.054
18	0.438051	1.894584	5.4	1.048
19	0.448989	1.850573	5.0	1.044
20	0.458147	1.815479	4.6	1.040
25	0.465932	1.786319	4.4	1.037
30	0.472633	1.762956	4.2	1.035

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
50				
1	0.022830	1008.119035	1054851.3	4.001
2	0.062034	39.484222	6320.9	2.011
3	0.099787	14.020860	892.7	1.607
4	0.133448	8.395900	302.2	1.438
5	0.162996	6.162341	149.3	1.345
6	0.188926	5.002213	90.3	1.286
7	0.211784	4.300706	61.8	1.245
8	0.232054	3.833338	45.8	1.214
9	0.250139	3.500449	35.9	1.191
10	0.266372	3.251532	29.3	1.172
12	0.294319	2.904207	21.3	1.144
14	0.317533	2.673233	16.7	1.125
16	0.337144	2.508295	13.8	1.110
18	0.353945	2.384429	11.9	1.098
20	0.368513	2.287858	10.3	1.089
25	0.397720	2.118992	8.1	1.072
30	0.419744	2.009393	6.8	1.061
35	0.436985	1.932245	5.9	1.053
40	0.450874	1.874856	5.3	1.048
45	0.462314	1.830420	4.9	1.043
50	0.471909	1.794952	4.6	1.039
55	0.480078	1.765959	4.3	1.037
60	0.487120	1.741800	4.1	1.034

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
55				
1	0.023597	1009.036684	1046024.1	4.001
2	0.063593	39.486067	6294.0	2.011
3	0.102048	14.011185	889.2	1.607
4	0.136331	8.384845	301.0	1.438
5	0.166435	6.150876	148.7	1.345
6	0.192868	4.990501	90.0	1.286
7	0.216183	4.288780	61.5	1.245
8	0.236872	3.821205	45.6	1.214
9	0.255343	3.488111	35.7	1.191
10	0.271934	3.238992	29.1	1.172
12	0.300524	2.891275	21.2	1.144
14	0.324305	2.659929	16.6	1.124
16	0.344419	2.494641	13.7	1.109
18	0.361672	2.370447	11.7	1.098
20	0.376650	2.273571	10.3	1.089
25	0.406733	2.104024	8.0	1.072
30	0.429473	1.993345	6.7	1.061
35	0.447315	1.916200	5.8	1.053
40	0.461715	1.858378	5.3	1.047
45	0.473597	1.813562	4.8	1.043
50	0.483578	1.777759	4.5	1.039
55	0.492088	1.748468	4.2	1.036
60	0.499434	1.724042	4.0	1.033

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES





DF	C-1	C-2	A-2/A-1	REDUCTION
60				
1	0.024249	1009.802050	1041665.7	4.001
2	0.064911	39.487602	6273.6	2.011
3	0.103957	14.003105	886.6	1.607
4	0.138765	8.375608	300.1	1.438
5	0.169340	6.141291	148.3	1.345
6	0.196199	4.980703	89.7	1.286
7	0.219902	4.278797	61.3	1.245
8	0.240946	3.811043	45.4	1.214
9	0.259745	3.477772	35.6	1.191
10	0.276641	3.228477	29.0	1.172
12	0.305782	2.880420	21.1	1.144
14	0.330048	2.648750	16.5	1.124
16	0.350596	2.483157	13.6	1.109
18	0.368240	2.358677	11.6	1.098
20	0.383572	2.261532	10.2	1.088
25	0.414416	2.091387	7.9	1.072
30	0.437784	1.980696	6.6	1.061
35	0.456153	1.902608	5.8	1.053
40	0.471004	1.844400	5.2	1.047
45	0.483278	1.799245	4.8	1.042
50	0.493603	1.763140	4.4	1.038
55	0.502418	1.733580	4.2	1.035
60	0.510035	1.708912	4.0	1.033

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	4052.180699	*	4.000
2	0.0	98.502513	*	2.015
3	0.0	34.116222	*	1.628
4	0.0	21.197690	*	1.478
5	0.0	16.258177	*	1.401
6	0.0	13.745023	*	1.356
7	0.0	12.246383	*	1.326
8	0.0	11.258624	*	1.305
9	0.0	10.561431	*	1.289
10	0.0	10.044239	*	1.277
12	0.0	9.330212	*	1.260
14	0.0	8.861593	*	1.248
16	0.0	8.530965	*	1.240
18	0.0	8.285420	*	1.233
20	0.0	8.095958	*	1.228
25	0.0	7.769798	*	1.220
30	0.0	7.562476	*	1.214
35	0.0	7.419117	*	1.210
40	0.0	7.314100	*	1.207
45	0.0	7.233868	*	1.205
50	0.0	7.170577	*	1.203
55	0.0	7.119377	*	1.201
60	0.0	7.077106	*	1.200

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.0	4999.500001	*	4.000
3	0.0	99.000000	*	2.010
4	0.0	30.816520	*	1.616
5	0.0	18.000000	*	1.460
6	0.0	13.273934	*	1.379
7	0.0	10.924767	*	1.331
8	0.0	9.546578	*	1.299
9	0.0	8.649111	*	1.276
10	0.0	8.021517	*	1.259
12	0.0	7.559432	*	1.246
14	0.0	6.926608	*	1.233
16	0.0	6.514884	*	1.215
18	0.0	6.226235	*	1.206
20	0.0	6.012905	*	1.199
25	0.0	5.848932	*	1.194
30	0.0	5.567997	*	1.184
35	0.0	5.390346	*	1.178
40	0.0	5.267941	*	1.174
45	0.0	5.178508	*	1.170
50	0.0	5.110318	*	1.168
55	0.0	5.056611	*	1.166
60	0.0	5.013219	*	1.165
		4.977432	*	1.163

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3	1	5403.352024	*	4.000
	2	99.166201	*	2.008
	3	29.456695	*	1.611
	4	16.694369	*	1.452
	5	12.059954	*	1.366
	6	9.779538	*	1.318
	7	8.451285	*	1.285
	8	7.590992	*	1.261
	9	6.991920	917430.2	1.243
	10	6.552316	645160.3	1.230
	12	5.952549	378786.9	1.210
	14	5.563892	258396.9	1.197
	16	5.292221	193049.2	1.187
	18	5.091898	154082.2	1.179
	20	4.938203	128368.7	1.173
	23	4.675477	92420.4	1.163
	30	4.509753	74073.1	1.156
	35	4.395765	63250.1	1.152
	40	4.312586	56147.2	1.148
	45	4.249226	51176.1	1.146
	50	4.195362	47504.9	1.144
	55	4.159100	44701.7	1.142
	60	4.125912	42461.8	1.140

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
4	1	5624.583324	*	4.000
	2	99.249372	*	2.007
	3	28.709936	523559.2	1.608
	4	15.977121	90008.0	1.447
	5	11.392100	30412.6	1.362
	6	9.148555	14531.8	1.310
	7	7.846984	8495.9	1.275
	8	7.006498	5647.1	1.250
	9	6.422586	4094.3	1.232
	10	5.994914	3157.1	1.217
	12	5.412663	2127.2	1.196
	14	5.036207	1598.0	1.182
	16	4.773509	1286.4	1.171
	18	4.580057	1085.1	1.163
	20	4.431789	946.0	1.157
	25	4.178676	737.3	1.146
	30	4.019251	623.3	1.139
	35	3.909708	552.3	1.133
	40	3.829834	504.2	1.130
	45	3.769028	469.5	1.127
	50	3.721196	443.4	1.125
	55	3.682589	423.1	1.123
	60	3.650776	406.8	1.121

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.0	5763.649555	*	4.000
1	0.000254	99.299358	980391.2	2.007
2	0.000929	28.237453	52327.6	1.605
3	0.001840	15.522596	11342.0	1.443
4	0.002824	10.568154	4388.2	1.356
5	0.003793	8.747420	2288.2	1.303
6	0.004710	7.462330	1421.2	1.267
7	0.005561	6.634063	987.3	1.242
8	0.006344	6.059494	740.1	1.222
9	0.007060	5.639169	585.8	1.207
10	0.008314	5.067692	409.5	1.185
12	0.009366	4.698738	316.0	1.170
14	0.010258	4.415554	259.2	1.159
16	0.011019	4.252323	221.8	1.150
18	0.011675	4.107391	195.5	1.144
20	0.012976	3.860188	155.3	1.132
25	0.013937	3.704637	132.9	1.124
30	0.014675	3.597329	118.8	1.119
35	0.015259	3.519990	109.1	1.115
40	0.015732	3.460756	102.1	1.111
45	0.016123	3.414177	96.8	1.109
50	0.016451	3.376591	92.6	1.107
55	0.016731	3.345626	89.2	1.105
60				

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.0	5858.986105	*	4.000
1	0.001119	99.332963	267378.7	2.006
2	0.003194	27.911730	17920.1	1.604
3	0.005612	15.208755	4322.8	1.440
4	0.008022	10.674963	1776.1	1.352
5	0.010283	8.469604	961.5	1.298
6	0.012353	7.195591	612.4	1.262
7	0.014239	6.375509	433.0	1.235
8	0.015939	5.807180	328.9	1.215
9	0.017473	5.391746	262.9	1.200
10	0.020126	4.827415	186.5	1.177
12	0.022321	4.463411	145.0	1.161
14	0.024161	4.209852	119.7	1.149
16	0.025721	4.023387	102.8	1.140
18	0.027059	3.880633	90.9	1.133
20	0.029690	3.637275	72.6	1.121
25	0.031620	3.484232	62.3	1.113
30	0.033095	3.379189	55.8	1.107
35	0.034258	3.302659	51.3	1.103
40	0.035197	3.244436	48.0	1.100
45	0.035971	3.198659	45.5	1.097
50	0.036621	3.161726	43.6	1.095
55	0.037174	3.131303	42.0	1.093
60				

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.0	5928.355728	*	4.000
1	0.0002679	99.357146	129365.1	2.006
2	0.006637	27.673625	9863.9	1.603
3	0.010889	14.978941	2520.8	1.438
4	0.014952	10.459900	1068.5	1.349
5	0.018674	8.265494	589.4	1.295
6	0.022029	6.999334	379.9	1.257
7	0.025039	6.185026	270.8	1.230
8	0.027737	5.621074	206.6	1.210
9	0.030160	5.209055	166.0	1.194
10	0.034315	4.649679	118.3	1.170
12	0.037733	4.289079	92.3	1.154
14	0.040584	4.037993	76.3	1.142
16	0.042995	3.853401	65.6	1.133
18	0.045057	3.712114	58.0	1.126
20	0.049100	3.471323	46.3	1.113
25	0.052059	3.319937	39.7	1.104
30	0.054314	3.215051	35.5	1.098
35	0.056090	3.140374	32.6	1.094
40	0.057523	3.082804	30.5	1.091
45	0.058704	3.037544	29.0	1.088
50	0.059693	3.001031	27.7	1.086
55	0.060535	2.970955	26.7	1.084
60				

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.0	5981.070320	*	4.000
1	0.004752	99.375425	82643.6	2.005
2	0.010751	27.491949	6811.0	1.602
3	0.016888	14.803281	1801.2	1.436
4	0.022611	10.295227	777.2	1.347
5	0.027780	8.108950	433.1	1.292
6	0.032400	6.848587	280.9	1.254
7	0.036519	6.033513	201.0	1.227
8	0.040196	5.477753	153.9	1.206
9	0.043487	5.068206	123.7	1.190
10	0.049113	4.512385	88.3	1.166
12	0.053727	4.154197	68.9	1.149
14	0.057569	3.904844	56.9	1.137
16	0.060813	3.721553	48.9	1.127
18	0.063585	3.581275	43.2	1.120
20	0.069014	3.342224	34.4	1.106
25	0.072983	3.191943	29.5	1.098
30	0.076008	3.088817	26.3	1.092
35	0.078387	3.013694	24.2	1.087
40	0.080307	2.956545	22.6	1.084
45	0.081889	2.911615	21.4	1.081
50	0.083215	2.875367	20.4	1.078
55	0.084342	2.845509	19.7	1.077
60				

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.0	6022.473237	*	4.000
1	0.007115	99.389724	61273.5	2.005
2	0.015126	27.348734	5320.7	1.601
3	0.023068	14.664574	1437.5	1.435
4	0.030363	10.164976	627.2	1.346
5	0.036898	7.984934	351.5	1.290
6	0.042708	6.728989	228.7	1.252
7	0.047870	5.922121	164.0	1.224
8	0.052467	5.363757	125.7	1.203
9	0.056576	4.956054	101.0	1.186
10	0.063589	4.402853	72.1	1.162
12	0.069333	4.046417	56.2	1.145
14	0.074114	3.798305	46.4	1.132
16	0.078148	3.615931	39.8	1.123
18	0.081595	3.476355	35.2	1.115
20	0.088346	3.238493	27.9	1.101
25	0.093280	3.088946	23.9	1.092
30	0.097041	2.986313	21.3	1.086
35	0.100001	2.911542	19.5	1.082
40	0.102389	2.854656	18.2	1.078
45	0.104358	2.809930	17.2	1.075
50	0.106007	2.773844	16.4	1.073
55	0.107409	2.744116	15.8	1.071
60				

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.0	6055.846715	*	4.000
1	0.009595	99.401207	49725.5	2.005
2	0.019503	27.232910	4472.9	1.601
3	0.029121	14.552221	1226.4	1.434
4	0.037868	10.059309	538.6	1.344
5	0.045661	7.884176	302.9	1.288
6	0.052569	6.631688	197.5	1.250
7	0.058694	5.827309	141.7	1.222
8	0.064144	5.270792	108.6	1.200
9	0.069011	4.864496	87.3	1.184
10	0.077312	4.313271	62.2	1.159
12	0.084110	3.958130	48.4	1.142
14	0.089767	3.710919	39.9	1.129
16	0.094342	3.529199	34.2	1.119
18	0.098622	3.390114	30.2	1.111
20	0.106618	3.153060	23.9	1.1097
25	0.112466	3.003991	20.4	1.1088
30	0.116925	2.901668	18.1	1.1082
35	0.120436	2.827110	16.6	1.1077
40	0.123271	2.770378	15.4	1.1073
45	0.125608	2.725767	14.6	1.1071
50	0.127567	2.689769	13.9	1.1068
55	0.129233	2.660113	13.4	1.1066
60				

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.0	6106.320705	*	4.000
1	0.014498	99.418479	38079.7	2.005
2	0.027757	27.056998	3579.9	1.600
3	0.040301	14.381240	998.6	1.433
4	0.051579	9.898179	441.5	1.343
5	0.061571	7.730238	249.4	1.286
6	0.070401	6.482767	162.8	1.247
7	0.078220	5.681959	116.8	1.218
8	0.085171	5.128055	89.4	1.197
9	0.091377	4.723725	71.8	1.180
10	0.101966	4.175196	51.0	1.154
12	0.110644	3.821766	39.6	1.137
14	0.117873	3.575701	32.5	1.124
16	0.123981	3.394783	27.8	1.114
18	0.129206	3.256276	24.5	1.106
20	0.139463	3.020107	19.3	1.091
25	0.146981	2.871504	16.3	1.082
30	0.152723	2.769445	14.5	1.075
35	0.157251	2.695045	13.2	1.070
40	0.160912	2.638410	12.3	1.067
45	0.163932	2.593859	11.5	1.064
50	0.166467	2.557900	11.0	1.061
55	0.168624	2.528266	10.5	1.059

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.0	6142.673972	*	4.000
1	0.019004	99.430827	32508.8	2.005
2	0.035045	26.929679	3134.8	1.600
3	0.050006	14.257204	882.6	1.432
4	0.063379	9.781013	392.0	1.341
5	0.075198	7.618050	221.5	1.284
6	0.085633	6.374004	144.5	1.245
7	0.094871	5.575594	103.6	1.216
8	0.103086	5.023412	79.2	1.194
9	0.110425	4.620347	63.5	1.177
10	0.117861	4.073491	45.1	1.151
12	0.133250	3.721059	34.9	1.133
14	0.141835	3.475614	28.6	1.120
16	0.149100	3.295091	24.3	1.110
18	0.155324	3.156840	21.4	1.102
20	0.167567	2.920976	16.7	1.087
25	0.176565	2.772451	14.1	1.078
30	0.183453	2.670376	12.5	1.071
35	0.188893	2.595921	11.3	1.066
40	0.193299	2.539216	10.5	1.062
45	0.196938	2.494590	9.9	1.059
50	0.199995	2.458557	9.4	1.056
55	0.202593	2.428852	9.0	1.054

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.0	6170.101205	*	4.000
1	0.023002	99.440080	29376.2	2.005
2	0.041350	26.833241	2877.1	1.599
3	0.058316	14.163074	814.4	1.431
4	0.073433	9.691927	362.4	1.341
5	0.086779	7.532589	204.8	1.283
6	0.098551	6.291006	133.6	1.244
7	0.108997	5.494290	95.7	1.219
8	0.118284	4.943300	73.1	1.193
9	0.126588	4.541088	58.5	1.175
10	0.134079	4.255310	41.4	1.149
11	0.140790	4.03468	31.9	1.111
12	0.146999	3.88346	26.1	1.101
13	0.152630	3.77992	22.2	1.099
14	0.157830	3.69528	19.4	1.084
15	0.162530	3.63039	17.2	1.074
16	0.166830	3.58414	15.5	1.067
17	0.170790	3.55134	14.2	1.062
18	0.174399	3.52615	13.0	1.058
19	0.177603	3.50677	11.9	1.055
20	0.180599	3.49154	10.9	1.053
21	0.183299	3.48060	10.0	1.050
22	0.185799	3.47278	9.4	1.050
23	0.188099	3.46674	8.8	1.050
24	0.190199	3.46154	8.4	1.050
25	0.192099	3.45677	8.0	1.050
26	0.193799	3.45239	7.7	1.050
27	0.195299	3.44834	7.4	1.050
28	0.196699	3.44454	7.1	1.050
29	0.197999	3.44104	6.9	1.050
30	0.199199	3.43777	6.7	1.050
31	0.200299	3.43467	6.5	1.050
32	0.201299	3.43167	6.3	1.050
33	0.202199	3.42877	6.1	1.050
34	0.203099	3.42597	5.9	1.050
35	0.203899	3.42327	5.7	1.050
36	0.204699	3.42067	5.5	1.050
37	0.205399	3.41817	5.3	1.050
38	0.206099	3.41577	5.1	1.050
39	0.206799	3.41347	4.9	1.050
40	0.207499	3.41127	4.7	1.050
41	0.208199	3.40917	4.5	1.050
42	0.208899	3.40717	4.3	1.050
43	0.209599	3.40527	4.1	1.050
44	0.210299	3.40347	3.9	1.050
45	0.210999	3.40177	3.7	1.050
46	0.211699	3.40017	3.5	1.050
47	0.212399	3.39867	3.3	1.050
48	0.213099	3.39727	3.1	1.050
49	0.213799	3.39597	2.9	1.050
50	0.214499	3.39477	2.7	1.050
51	0.215199	3.39367	2.5	1.050
52	0.215899	3.39267	2.3	1.050
53	0.216599	3.39177	2.1	1.050
54	0.217299	3.39097	1.9	1.050
55	0.217999	3.39027	1.7	1.050
56	0.218699	3.38967	1.5	1.050
57	0.219399	3.38917	1.3	1.050
58	0.220099	3.38877	1.1	1.050
59	0.220799	3.38847	0.9	1.050
60	0.221499	3.38827	0.7	1.050

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.0	6191.528710	*	4.000
1	0.026505	99.447265	27418.8	2.005
2	0.046782	26.757653	2713.1	1.599
3	0.065428	14.089183	770.6	1.431
4	0.082012	9.621882	343.3	1.341
5	0.096648	7.465289	194.0	1.283
6	0.109574	6.225348	126.4	1.244
7	0.120932	5.430079	90.5	1.219
8	0.131235	4.879945	69.0	1.193
9	0.140368	4.478330	55.2	1.175
10	0.148368	4.178330	43.9	1.149
11	0.155600	3.933265	35.0	1.111
12	0.162294	3.736793	29.0	1.101
13	0.168483	3.581767	24.5	1.099
14	0.174199	3.46477	20.8	1.084
15	0.179471	3.37277	18.1	1.074
16	0.184257	3.29208	15.5	1.067
17	0.188576	3.22297	14.2	1.062
18	0.192376	3.16332	12.9	1.058
19	0.195662	3.10308	11.9	1.055
20	0.198376	3.04303	11.0	1.053
21	0.200599	2.98303	10.4	1.050
22	0.202260	2.92303	9.9	1.050
23	0.203411	2.86303	9.4	1.050
24	0.204099	2.80303	8.8	1.050
25	0.204330	2.74303	8.4	1.050
26	0.204199	2.68303	8.0	1.050
27	0.203799	2.62303	7.7	1.050
28	0.203199	2.56303	7.4	1.050
29	0.202399	2.50303	7.1	1.050
30	0.201499	2.44303	6.9	1.050
31	0.200499	2.38303	6.7	1.050
32	0.199399	2.32303	6.5	1.050
33	0.198199	2.26303	6.3	1.050
34	0.196899	2.20303	6.1	1.050
35	0.195499	2.14303	5.9	1.050
36	0.193999	2.08303	5.7	1.050
37	0.192399	2.02303	5.5	1.050
38	0.190699	1.96303	5.3	1.050
39	0.188899	1.90303	5.1	1.050
40	0.186999	1.84303	4.9	1.050
41	0.184999	1.78303	4.7	1.050
42	0.182899	1.72303	4.5	1.050
43	0.180699	1.66303	4.3	1.050
44	0.178399	1.60303	4.1	1.050
45	0.175999	1.54303	3.9	1.050
46	0.173499	1.48303	3.7	1.050
47	0.170899	1.42303	3.5	1.050
48	0.168199	1.36303	3.3	1.050
49	0.165399	1.30303	3.1	1.050
50	0.162499	1.24303	2.9	1.050
51	0.159499	1.18303	2.7	1.050
52	0.156399	1.12303	2.5	1.050
53	0.153199	1.06303	2.3	1.050
54	0.149899	1.00303	2.1	1.050
55	0.146499	0.94303	1.9	1.050
56	0.142999	0.88303	1.7	1.050
57	0.139399	0.82303	1.5	1.050
58	0.135699	0.76303	1.3	1.050
59	0.131899	0.70303	1.1	1.050
60	0.127999	0.64303	0.9	1.050

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
20	0.0	6208.730219	*	4.000
1	0.029568	99.4530002	26101.8	2.005
2	0.051476	26.696809	2601.6	1.599
3	0.071544	14.029628	740.6	1.431
4	0.089376	9.565352	330.1	1.340
5	0.105115	7.410903	186.5	1.282
6	0.119022	6.172584	121.5	1.242
7	0.131358	5.378059	86.8	1.213
8	0.142353	4.828561	66.2	1.191
9	0.152204	4.427375	52.9	1.173
10	0.169097	3.882788	37.3	1.147
12	0.183039	3.531481	28.6	1.128
14	0.194733	3.286548	23.3	1.114
16	0.204677	3.106192	19.8	1.104
18	0.213235	3.967908	17.2	1.095
20	0.223017	3.731546	13.3	1.080
25	0.242736	3.582320	11.1	1.070
30	0.252414	3.479531	9.7	1.063
35	0.260102	3.404407	8.8	1.057
40	0.266355	3.347094	8.1	1.053
45	0.271543	3.301922	7.6	1.050
50	0.275914	3.265400	7.2	1.048
55	0.279649	3.235256	6.8	1.045
60				

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
25	0.0	6239.823119	*	4.000
1	0.035692	99.463297	24217.9	2.005
2	0.060735	26.586434	2439.2	1.599
3	0.083554	13.921409	696.5	1.431
4	0.103810	9.462447	310.5	1.339
5	0.121703	7.311726	175.3	1.281
6	0.137537	6.075831	114.0	1.241
7	0.151609	5.282877	81.4	1.212
8	0.164177	4.734393	62.0	1.189
9	0.175461	4.333853	49.4	1.171
10	0.194870	3.789888	34.7	1.145
12	0.210955	3.438702	26.5	1.126
14	0.224496	3.193636	21.5	1.112
16	0.236052	3.013015	18.2	1.101
18	0.246028	2.874400	15.8	1.092
20	0.265878	2.637123	12.1	1.077
25	0.280680	2.487007	10.1	1.066
30	0.292148	2.383413	8.8	1.059
35	0.301295	2.307577	7.9	1.054
40	0.308764	2.249638	7.2	1.050
45	0.314978	2.203915	6.7	1.046
50	0.320230	2.166905	6.4	1.044
55	0.324728	2.136328	6.0	1.041
60				

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
30	1 0.0	6250.648578	* 4.000	4.000
	2 0.040226	99.470133	23254.8	2.005
	3 0.067508	26.512226	2355.0	1.599
	4 0.092302	13.848512	573.3	1.430
	5 0.114312	9.392988	300.2	1.338
	6 0.133773	7.244647	169.4	1.280
	7 0.151020	6.010263	110.1	1.240
	8 0.166372	5.218249	78.5	1.211
	9 0.180108	4.670335	59.7	1.188
	10 0.192461	4.270121	47.5	1.170
	12 0.213765	3.726369	33.3	1.143
	14 0.231479	3.375073	25.4	1.124
	16 0.246439	3.129739	20.6	1.110
	18 0.259242	2.948775	17.3	1.099
	20 0.270326	2.809784	15.0	1.090
	25 0.292470	2.571547	11.5	1.075
	30 0.309072	2.420540	9.5	1.064
	35 0.321991	2.316155	8.2	1.057
	40 0.332336	2.239624	7.4	1.051
	45 0.340810	2.181074	6.7	1.047
	50 0.347881	2.134814	6.3	1.044
	55 0.353872	2.097329	5.9	1.041
	60 0.359013	2.066329	5.6	1.039

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
35	1 0.0	6275.567904	* 4.000	4.000
	2 0.043693	99.474999	22700.5	2.004
	3 0.072650	26.458908	2305.5	1.599
	4 0.098928	13.796064	659.7	1.430
	5 0.122263	9.342940	294.1	1.338
	6 0.142914	7.196241	165.8	1.280
	7 0.161239	5.962878	107.7	1.240
	8 0.177573	5.171476	76.7	1.210
	9 0.192209	4.623909	58.3	1.188
	10 0.205390	4.223870	46.4	1.170
	12 0.222817	3.680155	32.4	1.143
	14 0.247163	3.328670	24.7	1.124
	16 0.263245	3.083039	19.9	1.109
	18 0.277043	2.901730	16.8	1.098
	20 0.289014	2.762374	14.5	1.089
	25 0.313018	2.523237	11.1	1.073
	30 0.331095	2.371405	9.1	1.063
	35 0.345217	2.266290	7.9	1.055
	40 0.356563	2.189118	7.0	1.050
	45 0.365884	2.130005	6.4	1.045
	50 0.373682	2.083247	6.0	1.042
	55 0.380303	2.045320	5.6	1.039
	60 0.385997	2.013927	5.3	1.037

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
40	0.0	6286.782060	#	4.000
1	0.046421	99.478640	22345.4	2.004
2	0.076675	26.418747	2273.8	1.598
3	0.104108	13.756517	650.9	1.430
4	0.128477	9.305160	290.1	1.338
5	0.150063	7.159660	163.5	1.280
6	0.169237	5.927027	106.1	1.240
7	0.186348	5.136048	75.6	1.210
8	0.201697	4.588707	57.4	1.187
9	0.215538	4.188763	45.6	1.169
10	0.229500	3.645004	31.8	1.142
12	0.259524	3.293309	24.2	1.123
14	0.276516	3.047390	19.5	1.109
16	0.291124	2.865758	16.4	1.097
18	0.303824	2.726068	14.2	1.089
20	0.329363	2.486115	10.8	1.073
25	0.348673	2.333540	8.9	1.062
30	0.363809	2.227767	7.6	1.054
35	0.376006	2.150015	6.8	1.049
40	0.386051	2.090390	6.2	1.044
45	0.394474	2.043179	5.7	1.041
50	0.401640	2.004848	5.4	1.038
55	0.407814	1.973094	5.1	1.036
60				

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
45	0.0	6295.518731	#	4.000
1	0.048618	99.481466	22103.3	2.004
2	0.079907	26.387408	2252.4	1.598
3	0.108264	13.725632	644.9	1.430
4	0.133464	9.275628	287.4	1.338
5	0.155902	7.131039	161.9	1.280
6	0.175661	5.898953	105.1	1.239
7	0.193401	5.108281	74.8	1.210
8	0.209331	4.561092	56.7	1.187
9	0.223709	4.161199	45.1	1.169
10	0.248638	3.617362	31.4	1.142
12	0.269511	3.265458	23.9	1.123
14	0.287255	3.019271	19.3	1.108
16	0.302537	2.837345	16.2	1.097
18	0.315844	2.697355	14.0	1.088
20	0.342674	2.456672	10.6	1.072
25	0.363030	2.303434	8.7	1.061
30	0.379032	2.197071	7.5	1.053
35	0.391960	2.118797	6.6	1.048
40	0.402633	2.058711	6.0	1.043
45	0.411600	2.011090	5.6	1.040
50	0.419243	1.972393	5.2	1.037
55	0.425839	1.940310	4.9	1.035
60				

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
50	0.0	6302.517196	*	4.000
1	0.050424	99.483723	21933.6	2.004
2	0.082557	26.362271	2237.1	1.598
3	0.111669	13.700843	640.6	1.430
4	0.137550	9.251909	285.4	1.338
5	0.160507	7.108035	160.8	1.280
6	0.180931	5.876371	104.3	1.239
7	0.199191	5.085930	74.2	1.210
8	0.215602	4.538848	56.3	1.187
9	0.230427	4.138981	44.7	1.169
10	0.256151	3.595049	31.1	1.141
12	0.277744	3.242948	23.7	1.122
14	0.296121	2.996517	19.1	1.108
16	0.311972	2.814327	16.0	1.097
18	0.325794	2.674069	13.8	1.088
20	0.335372	2.432734	10.4	1.071
25	0.374977	2.278904	8.5	1.061
30	0.391729	2.172013	7.3	1.053
35	0.405294	2.093271	6.5	1.047
40	0.416516	2.032769	5.9	1.043
45	0.425960	1.984777	5.5	1.039
50	0.434024	1.945748	5.1	1.036
55	0.440993	1.913366	4.8	1.034

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
55	0.0	6308.249227	*	4.000
1	0.051934	99.485567	21809.3	2.004
2	0.084768	26.341660	2225.8	1.598
3	0.114510	13.680507	637.4	1.430
4	0.140959	9.232440	284.0	1.338
5	0.164433	7.089141	159.9	1.280
6	0.185331	5.857813	103.7	1.239
7	0.204028	5.067550	73.8	1.209
8	0.220843	4.520545	55.9	1.187
9	0.236045	4.120688	44.4	1.168
10	0.262461	3.576659	30.9	1.141
12	0.284648	3.224375	23.5	1.122
14	0.303564	2.977723	18.9	1.107
16	0.319901	2.795296	15.8	1.096
18	0.334165	2.654798	13.7	1.087
20	0.363044	2.412882	10.6	1.071
25	0.385076	2.258522	8.4	1.060
30	0.402483	2.151158	7.2	1.052
35	0.416607	2.071955	6.4	1.047
40	0.428313	2.011117	5.8	1.042
45	0.438181	1.962789	5.4	1.039
50	0.446620	1.923458	5.0	1.036
55	0.453922	1.890803	4.7	1.033

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
60	1 0.0	6313 .030051	21714.5 *	4.000
	2 0.053215	99.487102	2217.3	2.004
	3 0.086640	26.324455	635.0	1.598
	4 0.116914	13.663524	282.9	1.430
	5 0.143845	9.216172	159.3	1.338
	6 0.167758	7.073346	103.3	1.279
	7 0.189059	5.842290	73.4	1.239
	8 0.208128	5.052169	55.7	1.209
	9 0.225288	4.505221	44.2	1.186
	10 0.240812	4.105365	30.7	1.163
	12 0.267813	3.561238	23.3	1.141
	14 0.290518	3.208787	18.3	1.122
	16 0.309900	2.961935	15.7	1.107
	18 0.326657	2.779296	13.6	1.096
	20 0.341304	2.638582	12.2	1.087
	25 0.371011	2.396147	10.2	1.071
	30 0.393726	2.241312	8.4	1.060
	35 0.411710	2.133522	7.2	1.052
	40 0.426330	2.053979	6.4	1.046
	45 0.438466	1.992761	5.8	1.042
	50 0.448712	1.944128	5.3	1.038
	55 0.457486	1.904521	5.0	1.035
	60 0.465088	1.871618	4.7	1.033

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	16210.722709	*	4.000
2	0.0	198.501253	*	2.008
3	0.0	55.551957	*	1.613
4	0.0	31.332772	*	1.458
5	0.0	22.784781	*	1.378
6	0.0	18.634996	*	1.331
7	0.0	16.235558	*	1.300
8	0.0	14.688199	*	1.279
9	0.0	13.613609	*	1.263
10	0.0	12.826470	*	1.250
12	0.0	11.754230	*	1.233
14	0.0	11.060253	*	1.221
16	0.0	10.575458	*	1.212
18	0.0	10.218087	*	1.206
20	0.0	9.943935	*	1.201
25	0.0	9.475312	*	1.192
30	0.0	9.179677	*	1.186
35	0.0	8.976295	*	1.182
40	0.0	8.827859	*	1.176
45	0.0	8.714771	*	1.177
50	0.0	8.625758	*	1.175
55	0.0	8.553876	*	1.174
60	0.0	8.494617	*	1.173

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.0	19999.499960	*	4.000
3	0.0	199.000000	*	2.005
4	0.0	49.799278	*	1.605
5	0.0	26.284271	*	1.446
6	0.0	18.313830	*	1.363
7	0.0	14.544106	*	1.313
8	0.0	12.403957	*	1.281
9	0.0	11.042412	*	1.258
10	0.0	10.106714	*	1.240
12	0.0	9.426999	*	1.227
14	0.0	8.909627	*	1.209
16	0.0	7.921642	*	1.196
18	0.0	7.513820	*	1.187
20	0.0	7.214834	*	1.180
25	0.0	6.986465	*	1.174
30	0.0	6.598199	*	1.165
35	0.0	6.354689	*	1.159
40	0.0	6.187841	*	1.154
45	0.0	6.066426	*	1.151
50	0.0	5.974134	*	1.149
55	0.0	5.901617	*	1.147
60	0.0	5.843141	*	1.145
		5.794991	*	1.144

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESS IVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
3	1 0.0	21614.741446	*	4.000
	2 0.0	199.166435	*	2.004
	3 0.0	47.467228	*	1.602
	4 0.0	24.259120	*	1.440
	5 0.0	16.529770	*	1.356
	6 0.0	12.916601	*	1.305
	7 0.0	10.882447	*	1.271
	8 0.0	9.596475	*	1.247
	9 0.0	8.717055	*	1.229
	10 0.0	8.080747	*	1.215
	12 0.0	7.225764	*	1.195
	14 0.0	6.680353	*	1.183
	16 0.0	6.303385	*	1.172
	18 0.0	6.027768	*	1.163
	20 0.0	5.817702	*	1.159
	25 0.000004	5.461522	431033.5	1.149
	30 0.000005	5.238796	335569.5	1.142
	35 0.000005	5.086501	280897.9	1.138
	40 0.000006	4.975845	245097.0	1.134
	45 0.000006	4.891827	220263.3	1.132
	50 0.000007	4.825974	202428.1	1.130
	55 0.000007	4.772729	188678.2	1.128
	60 0.000007	4.728956	178570.4	1.127

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
4	1 0.0	22499.583305	*	4.000
	2 0.0	199.249687	*	2.004
	3 0.0	46.194622	*	1.600
	4 0.000068	23.154535	359711.2	1.437
	5 0.000130	15.556125	105931.2	1.351
	6 0.000202	12.027631	46081.9	1.299
	7 0.000278	10.050630	25200.6	1.264
	8 0.000354	8.805307	15927.6	1.239
	9 0.000429	7.956100	11102.7	1.220
	10 0.000501	7.343057	8295.0	1.206
	12 0.000634	6.521456	5327.8	1.185
	14 0.000752	5.998783	3867.2	1.171
	16 0.000856	5.638274	3033.2	1.161
	18 0.000948	5.375111	2506.9	1.153
	20 0.001029	5.174795	2150.1	1.147
	25 0.001194	4.835689	1626.8	1.136
	30 0.001319	4.624017	1348.1	1.129
	35 0.001418	4.479461	1177.6	1.124
	40 0.001497	4.374525	1063.4	1.120
	45 0.001562	4.294906	981.9	1.117
	50 0.001617	4.232441	921.1	1.115
	55 0.001662	4.182130	874.0	1.113
	60 0.001702	4.140745	836.5	1.112

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.0	23055.798235	*	4.000
1	0.0	199.259649	*	2.003
2	0.000429	45.391817	179855.1	1.599
3	0.000917	22.456793	32215.5	1.435
4	0.001473	14.940196	11112.6	1.347
5	0.002040	11.464514	5365.0	1.294
6	0.002589	9.523097	3153.4	1.258
7	0.003107	8.303046	2101.2	1.233
8	0.003591	7.472600	1524.6	1.213
9	0.004038	6.873988	1175.3	1.198
10	0.004830	6.073072	790.4	1.177
12	0.005504	5.564473	592.1	1.162
14	0.006080	5.214143	475.3	1.151
16	0.006576	4.958681	399.7	1.143
18	0.007006	4.764389	347.6	1.136
20	0.007865	4.435836	269.3	1.125
25	0.008505	4.230995	226.6	1.117
30	0.008999	4.051222	200.0	1.112
35	0.009392	3.989820	182.1	1.108
40	0.009711	3.912921	169.1	1.105
45	0.009976	3.852613	159.4	1.103
50	0.010198	3.804056	151.8	1.101
55	C.C10389	3.764123	145.7	1.099
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.0	23437.111072	*	4.000
1	0.0	199.332962	*	2.003
2	0.001731	44.839064	51176.1	1.598
3	0.003310	21.975689	10407.0	1.433
4	0.004891	14.514906	3859.7	1.345
5	0.006412	11.075196	1951.0	1.290
6	0.007829	9.157973	1182.9	1.254
7	0.009131	7.955070	805.8	1.238
8	0.010319	7.137331	594.4	1.208
9	0.011400	6.548478	464.0	1.192
10	0.013285	5.761517	317.6	1.170
12	0.014860	5.262389	240.7	1.155
14	0.016189	4.918894	194.7	1.143
16	0.017322	4.668593	164.8	1.133
18	0.018300	4.478333	143.9	1.128
20	0.020233	4.156826	112.3	1.116
25	0.021661	3.956536	94.9	1.108
30	0.022757	3.819943	84.0	1.102
35	0.023624	3.720890	76.5	1.098
40	0.024327	3.645795	71.2	1.095
45	0.024908	3.586917	67.2	1.092
50	0.025396	3.539521	64.0	1.090
55	0.025811	3.500550	61.5	1.089
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.0	23714.565868	*	4.000
1	0.0001528	199.357198	454544.5	2.003
2	0.0004133	44.435294	25302.6	1.597
3	0.0007084	21.623745	5521.4	1.431
4	0.0009983	14.203350	2128.6	1.343
5	0.0012688	10.789617	1101.7	1.288
6	0.0015159	8.889819	678.3	1.251
7	0.0017396	7.699234	467.1	1.224
8	0.0019416	6.890596	347.1	1.204
9	0.0021242	6.308715	272.5	1.198
10	0.0024396	5.531687	187.8	1.165
12	0.0027011	5.039268	143.0	1.149
14	0.0029206	4.700597	116.0	1.137
16	0.0031071	4.453923	98.3	1.128
18	0.0032672	4.266490	85.9	1.121
20	0.0035829	3.949899	67.1	1.109
25	0.0038152	3.752768	56.7	1.100
30	0.0039931	3.618373	50.2	1.095
35	0.0041335	3.520937	45.7	1.090
40	0.0042472	3.447082	42.5	1.087
45	0.0043410	3.389184	40.1	1.084
50	0.0044198	3.342582	38.2	1.082
55	0.0044868	3.304268	36.7	1.080
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.0	23925.406212	*	4.000
1	0.0002958	199.375357	267378.7	2.003
2	0.0007192	44.127408	16322.9	1.597
3	0.0011707	21.354989	3717.3	1.430
4	0.0016013	13.565098	1465.8	1.341
5	0.0019959	10.570926	768.8	1.286
6	0.0023573	8.684227	477.3	1.248
7	0.0026726	7.502864	330.4	1.221
8	0.0029603	6.701018	246.5	1.200
9	0.0032192	6.124321	193.9	1.184
10	0.0036646	5.354645	134.1	1.161
12	0.0040324	4.867161	102.2	1.144
14	0.0043403	4.532017	82.9	1.132
16	0.0046014	4.287983	70.2	1.123
18	0.0048253	4.102597	61.4	1.116
20	0.0052660	3.789544	47.9	1.103
25	0.0055898	3.594666	40.4	1.094
30	0.0058375	3.461829	35.7	1.089
35	0.0060330	3.265533	32.5	1.084
40	0.0061912	3.292548	30.2	1.081
45	0.0063217	3.235335	28.4	1.078
50	0.0064312	3.189287	27.1	1.076
55	0.0065245	3.151429	26.0	1.074
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.0	24091.004035	*	4.000
1	0.004709	199.289560	187264.9	2.003
2	0.010635	43.884847	12182.2	1.596
3	0.016714	21.142963	2850.8	1.429
4	0.022403	13.776878	1140.0	1.340
5	0.027562	10.397953	602.7	1.284
6	0.032189	8.521461	375.9	1.246
7	0.036329	7.347167	261.0	1.219
8	0.040037	6.550553	195.0	1.198
10	0.043367	5.977833	153.6	1.181
12	0.049082	5.213767	106.2	1.158
14	0.053793	4.730021	80.9	1.141
16	0.057732	4.397530	65.6	1.129
18	0.061070	4.155470	55.5	1.119
20	0.063932	3.971603	48.5	1.112
25	0.069562	3.661155	37.7	1.098
30	0.073698	3.467916	31.8	1.090
35	0.076862	3.336202	28.0	1.084
40	0.079359	3.240721	25.5	1.079
45	0.081379	3.168354	23.6	1.076
50	0.083046	3.111625	22.2	1.073
55	0.084445	3.065965	21.1	1.071
60	0.085637	3.028427	20.3	1.069

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.0	24224.486871	*	4.000
1	0.006642	199.400972	145771.6	2.003
2	0.014222	43.688792	9513.7	1.596
3	0.021794	20.971367	2263.3	1.429
4	0.028793	13.624353	953.8	1.339
5	0.035096	10.257603	506.7	1.283
6	0.040727	8.389139	316.9	1.244
7	0.045752	7.220563	220.3	1.217
8	0.050244	6.428082	164.7	1.196
9	0.054275	5.858492	129.7	1.179
10	0.0581186	5.098814	89.7	1.155
12	0.061186	4.617967	68.3	1.138
14	0.066873	4.287517	55.3	1.126
16	0.071637	4.046962	46.7	1.116
18	0.075669	3.864247	40.8	1.108
20	0.079127	3.555748	31.6	1.095
25	0.085930	3.363719	26.6	1.086
30	0.090931	3.232822	23.4	1.080
35	0.094758	3.137928	21.2	1.075
40	0.097779	3.066001	19.7	1.072
45	0.100224	3.009614	18.5	1.069
50	0.102243	2.964227	17.6	1.066
55	0.103938	2.926910	15.8	1.064
60	0.105381			

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.0	24426.366101	*	4.000
1	0.010663	199.418151	105707.2	2.003
2	0.021264	43.391255	7608.2	1.596
3	0.031519	20.710513	1854.7	1.428
4	0.040855	13.392100	756.4	1.337
5	0.049208	10.043542	403.9	1.281
6	0.056636	8.187107	253.2	1.242
7	0.063249	7.026897	176.2	1.214
8	0.069155	6.240493	131.7	1.193
9	0.074449	5.675475	103.7	1.176
10	0.083525	4.922143	71.5	1.151
12	0.091004	4.445431	54.3	1.134
14	0.097262	4.117851	43.8	1.121
16	0.102569	3.879383	37.0	1.111
18	0.107123	3.698243	32.1	1.103
20	0.116099	3.392355	24.8	1.089
25	0.122709	3.201895	20.7	1.080
30	0.127776	3.072029	18.2	1.074
35	0.131783	2.977855	16.4	1.069
40	0.135028	2.906457	15.2	1.065
45	0.137711	2.850472	14.2	1.062
50	0.139965	2.805399	13.5	1.060
55	0.141886	2.768334	12.9	1.058

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.0	24571.767335	*	4.000
1	0.014531	199.430449	87411.6	2.002
2	0.027712	43.176104	6495.9	1.595
3	0.040236	20.521515	1603.3	1.427
4	0.051556	13.223487	657.3	1.336
5	0.061639	9.887836	351.8	1.280
6	0.070597	8.039881	220.6	1.241
7	0.078568	6.885524	153.5	1.212
8	0.085686	6.103335	114.6	1.191
9	0.092070	5.541459	90.1	1.174
10	0.103023	4.752426	62.0	1.148
12	0.112064	4.318453	46.9	1.131
14	0.119638	3.992731	37.8	1.118
16	0.126071	3.755582	31.8	1.108
18	0.131539	3.575412	27.6	1.100
20	0.142517	3.271064	21.2	1.085
25	0.150579	3.081469	17.6	1.076
30	0.156772	2.952134	15.4	1.069
35	0.161678	2.858307	13.9	1.065
40	0.165658	2.787146	12.8	1.061
45	0.168951	2.731329	11.9	1.058
50	0.171722	2.686379	11.3	1.055
55	0.174084	2.649406	10.8	1.053

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.0	24681.467261	*	4.000
1	0.018064	199.439673	77398.4	2.002
2	0.033423	43.013258	5864.8	1.595
3	0.047857	20.378231	1458.3	1.427
4	0.060848	13.095446	599.6	1.336
5	0.072402	9.769404	321.2	1.279
6	0.082662	7.927725	201.4	1.240
7	0.091794	6.777669	140.0	1.211
8	0.099954	5.998551	104.5	1.189
9	0.107278	5.438943	82.0	1.172
10	0.111986	4.692963	56.9	1.147
12	0.130262	4.220890	42.5	1.129
14	0.138992	3.856420	34.2	1.115
16	0.146419	3.660132	28.7	1.105
18	0.152812	3.480574	24.8	1.097
20	0.165465	3.177135	18.5	1.083
25	0.174836	2.987993	15.7	1.073
30	0.182051	2.858857	13.7	1.066
35	0.187776	2.765199	12.3	1.061
40	0.192428	2.694104	11.3	1.057
45	0.196284	2.638319	10.5	1.054
50	0.199531	2.593380	9.9	1.052
55	0.202302	2.556405	9.5	1.050
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.0	24767.170365	*	4.000
1	0.021224	199.446841	71224.1	2.002
2	0.038426	42.885698	5468.9	1.595
3	0.054477	20.265844	1366.2	1.427
4	0.068888	12.994876	562.7	1.335
5	0.081696	9.676254	301.5	1.278
6	0.093072	7.839395	185.0	1.239
7	0.103203	6.692619	131.3	1.210
8	0.112262	5.915824	97.8	1.188
9	0.120401	5.357915	76.8	1.171
10	0.134402	4.614188	52.6	1.145
12	0.145998	4.143478	39.6	1.127
14	0.155748	3.819877	31.7	1.114
16	0.164057	3.584163	26.6	1.103
18	0.171219	3.404994	23.0	1.093
20	0.185428	3.102076	17.5	1.080
25	0.195980	2.913135	14.4	1.071
30	0.204124	2.784100	12.5	1.064
35	0.210595	2.690397	11.2	1.059
40	0.215869	2.619266	10.3	1.055
45	0.220242	2.563430	9.6	1.052
50	0.223929	2.518433	9.0	1.049
55	0.227030	2.481399	8.6	1.047
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
20	0.0	24835.970812	*	4.000
1	0.024025	199.452567	67113.1	2.002
2	0.042801	42.783071	5201.9	1.595
3	0.060232	20.175323	1303.7	1.426
4	0.075860	12.913777	537.5	1.335
5	0.089747	9.601052	287.9	1.278
6	0.102086	7.768003	180.4	1.238
7	0.113083	6.623805	125.2	1.209
8	0.122926	5.848821	93.3	1.187
9	0.131775	5.292224	73.1	1.170
10	0.147021	4.550207	50.0	1.144
12	0.159670	4.080502	37.6	1.126
14	0.170325	3.757518	30.1	1.112
16	0.179419	3.522191	25.1	1.102
18	0.187269	3.343266	21.7	1.094
20	0.202878	3.040621	16.4	1.079
25	0.214502	2.851722	13.5	1.069
30	0.223494	2.722637	11.7	1.062
35	0.230656	2.623847	10.5	1.057
40	0.236495	2.557616	9.6	1.053
45	0.241347	2.501677	8.9	1.049
50	0.243442	2.456581	8.4	1.047
55	0.248945	2.419453	8.0	1.045
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
25	0.0	24960.340449	*	4.000
1	0.029735	199.462848	61273.5	2.002
2	0.051555	42.597021	4817.3	1.595
3	0.071677	20.010973	1212.5	1.426
4	0.089689	12.766304	500.4	1.334
5	0.105703	9.464088	268.0	1.277
6	0.119952	7.637781	167.7	1.237
7	0.132675	6.498097	116.2	1.208
8	0.144086	5.726247	86.4	1.186
9	0.154367	5.171837	67.6	1.168
10	0.172135	4.432705	46.0	1.142
12	0.186939	3.964581	34.5	1.124
14	0.199457	3.642491	27.5	1.110
16	0.210180	3.407663	22.9	1.099
18	0.219467	3.228992	19.7	1.091
20	0.238026	2.926430	14.8	1.076
25	0.251936	2.737268	12.1	1.066
30	0.262753	2.607806	10.4	1.058
35	0.271406	2.513615	9.3	1.053
40	0.278488	2.441952	8.5	1.049
45	0.284392	2.385685	7.8	1.046
50	0.289389	2.340249	7.4	1.043
55	0.293673	2.302807	7.0	1.041
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.0	25043.627717	*	4.000
1	0.034031	199.469677	58342.1	2.002
2	0.058046	42.472024	4615.6	1.595
3	0.080117	19.900369	1165.2	1.426
4	0.099869	12.666880	481.0	1.334
5	0.117446	9.371581	257.5	1.276
6	0.133108	7.549671	161.0	1.237
7	0.147115	6.412894	111.4	1.208
8	0.159700	5.643028	82.8	1.185
9	0.171061	5.090054	64.7	1.168
10	0.190745	4.352557	43.9	1.141
12	0.207203	3.885288	32.8	1.123
14	0.221165	3.563609	26.1	1.109
16	0.233160	3.328936	21.7	1.098
18	0.243579	3.150271	18.6	1.089
20	0.264490	2.847396	13.9	1.074
25	0.280249	2.657744	11.3	1.064
30	0.292560	2.527761	9.7	1.056
35	0.302448	2.433067	8.6	1.051
40	0.310568	2.360979	7.8	1.047
45	0.317356	2.304247	7.2	1.043
50	0.323117	2.258424	6.8	1.041
55	0.328063	2.220632	6.4	1.038
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
35	0.0	25103.300271	*	4.000
1	0.037350	199.474542	56638.3	2.002
2	0.063016	42.382262	4504.3	1.595
3	0.086561	19.820844	1137.3	1.426
4	0.107634	12.595300	469.5	1.334
5	0.126404	9.304893	251.2	1.276
6	0.143150	7.486067	157.0	1.236
7	0.158149	6.351308	108.6	1.207
8	0.171645	5.582800	80.5	1.185
9	0.183845	5.030756	62.9	1.167
10	0.205032	4.294343	42.6	1.141
12	0.222797	3.827570	31.8	1.122
14	0.237908	3.506073	25.2	1.108
16	0.250924	3.271405	20.9	1.097
18	0.262257	3.092643	17.9	1.088
20	0.285084	2.789315	13.3	1.073
25	0.302369	2.599112	10.8	1.062
30	0.315927	2.468581	9.3	1.055
35	0.326834	2.373375	8.7	1.049
40	0.335853	2.300818	7.4	1.045
45	0.343397	2.243660	6.8	1.042
50	0.349814	2.197452	6.4	1.039
55	0.355340	2.159311	6.0	1.037
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
40	0.0	25148.153262	*	4.000
1	0.039980	199.478181	55616.4	2.002
2	0.066931	42.314674	4430.4	1.595
3	0.091626	19.760909	1119.4	1.426
4	0.113735	12.541299	462.1	1.334
5	0.133446	9.254531	247.2	1.276
6	0.151050	7.437986	154.4	1.236
7	0.166836	6.304705	106.7	1.207
8	0.181057	5.537179	79.1	1.184
9	0.193930	4.985795	61.7	1.167
10	0.216325	4.250121	41.8	1.140
12	0.235147	3.783648	31.1	1.121
14	0.251195	3.462217	24.6	1.107
16	0.265048	3.227486	20.4	1.096
18	0.277133	3.048586	17.5	1.087
20	0.301551	2.744769	13.0	1.072
25	0.320117	2.554019	10.5	1.061
30	0.334730	2.422959	8.9	1.054
35	0.346543	2.327262	7.9	1.048
40	0.356299	2.254258	7.1	1.044
45	0.364496	2.196695	6.6	1.040
50	0.371483	2.150121	6.1	1.038
55	0.377511	2.111648	5.8	1.035

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
45	0.0	25183.097046	*	4.000
1	0.0422109	199.481005	54883.7	2.002
2	0.070087	42.261548	4380.7	1.595
3	0.095706	19.714119	1107.3	1.426
4	0.113650	12.499108	457.1	1.334
5	0.139119	9.215151	244.4	1.276
6	0.157418	7.400359	152.6	1.236
7	0.173844	6.268205	105.4	1.207
8	0.188657	5.501419	78.1	1.184
9	0.202079	4.950526	60.9	1.166
10	0.223467	4.215379	41.2	1.140
12	0.245163	3.749091	30.6	1.121
14	0.261988	3.427665	24.2	1.107
16	0.276537	3.192840	20.1	1.096
18	0.289252	3.013789	17.1	1.087
20	0.315013	2.709489	12.7	1.071
25	0.334668	2.518223	10.3	1.061
30	0.350187	2.386367	8.7	1.053
35	0.362766	2.290512	7.7	1.047
40	0.373179	2.217092	6.9	1.043
45	0.381946	2.159153	6.4	1.040
50	0.389433	2.112237	5.9	1.037
55	0.395904	2.073455	5.6	1.034

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
50	1 0.0	25211.0887779	*	4.000
	2 0.043867	199.483262	54346.6	2.002
	3 0.072685	42.219666	4345.3	1.594
	4 0.059059	19.676575	1098.6	1.426
	5 0.122689	12.465233	453.5	1.334
	6 0.143784	9.183513	242.4	1.276
	7 0.162657	7.370108	151.3	1.236
	8 0.179613	6.238842	104.5	1.207
	9 0.194917	5.472633	77.4	1.184
100	0.208798	4.922115	60.3	1.166
12	0.233014	4.187358	40.7	1.140
14	0.253443	3.721186	30.3	1.121
16	0.270923	3.399733	24.0	1.106
18	0.286063	3.164801	19.8	1.095
20	0.299313	2.985599	16.9	1.087
25	0.326221	2.680841	12.5	1.071
30	0.346815	2.489095	10.1	1.060
35	0.363119	2.357082	8.6	1.052
40	0.376366	2.260307	7.5	1.047
45	0.387355	2.186703	6.8	1.042
50	0.396625	2.128416	6.2	1.039
55	0.404555	2.081185	5.8	1.036
60	0.411419	2.042116	5.4	1.034

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
55	1 0.0	25234.015065	*	4.000
	2 0.045340	199.485105	53994.7	2.002
	3 0.074857	42.185005	4319.0	1.594
	4 0.101863	19.645784	1092.2	1.425
	5 0.126066	12.437436	450.8	1.334
	6 0.147636	9.157537	240.9	1.276
	7 0.167041	7.345253	150.3	1.236
	8 0.184443	6.214707	103.8	1.206
	9 0.200162	5.448959	76.9	1.184
100	0.214429	4.898738	59.9	1.166
12	0.239349	4.164278	40.4	1.139
14	0.260402	3.658178	30.0	1.120
16	0.278442	3.376679	23.7	1.106
18	0.294087	3.141637	19.6	1.095
20	0.307798	2.962290	16.7	1.086
25	0.335697	2.657105	12.3	1.070
30	0.357108	2.464918	9.9	1.060
35	0.374099	2.332487	8.4	1.052
40	0.387935	2.235526	7.4	1.046
45	0.399433	2.161371	6.7	1.042
50	0.409150	2.102764	6.1	1.038
55	0.417475	2.055243	5.7	1.035
60	0.424691	2.015909	5.3	1.033

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.0	25253.136964	*	4.000
1	0.046593	199.486640	53704.7	2.002
2	0.076701	42.156075	4299.3	1.594
3	0.104241	19.620073	1087.4	1.425
4	0.128931	12.414216	448.8	1.334
5	0.150996	9.135328	239.8	1.276
6	0.170762	7.324481	149.6	1.236
7	0.188544	6.194518	103.3	1.206
8	0.204618	5.429146	76.5	1.184
9	0.219217	4.879165	59.6	1.166
10	0.244740	4.144935	40.2	1.135
12	0.266330	3.678878	29.8	1.120
14	0.284854	3.357326	23.6	1.106
16	0.300938	3.122176	19.5	1.095
18	0.315048	2.942692	16.6	1.086
20	0.343814	2.637113	12.2	1.070
25	0.365942	2.444522	9.8	1.059
30	0.383540	2.311708	8.3	1.052
35	0.397897	2.214395	7.3	1.046
40	0.409850	2.139918	6.6	1.041
45	0.419966	2.081017	6.0	1.038
50	0.428645	2.033228	5.6	1.035
55	0.436178	1.993651	5.3	1.032
60				

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	405284.072584	*	4.000
2	0.0	998.500251	*	2.002
3	0.0	167.029224	*	1.596
4	0.0	74.137293	*	1.433
5	0.0	47.180779	*	1.348
6	0.0	35.507490	*	1.298
7	0.0	29.245193	*	1.265
8	0.0	25.414760	*	1.242
9	0.0	22.857125	*	1.225
10	0.0	21.039595	*	1.212
12	0.0	18.643322	*	1.193
14	0.0	17.143360	*	1.181
16	0.0	16.120196	*	1.173
18	0.0	15.379306	*	1.165
20	0.0	14.818776	*	1.160
25	0.0	13.876697	*	1.151
30	0.0	13.293014	*	1.145
35	0.0	12.896335	*	1.141
40	0.0	12.609358	*	1.138
45	0.0	12.392170	*	1.136
50	0.0	12.222106	*	1.134
55	0.0	12.085346	*	1.133
60	0.0	11.972987	*	1.132

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.0	499999.501262	*	4.000
3	0.0	999.000001	*	2.001
4	0.0	148.500000	*	1.593
5	0.0	61.245533	*	1.428
6	0.0	37.122330	*	1.341
7	0.0	27.000000	*	1.289
8	0.0	21.688999	*	1.254
9	0.0	18.493653	*	1.230
10	0.0	16.387150	*	1.212
12	0.0	14.905359	*	1.199
14	0.0	12.973666	*	1.179
16	0.0	11.778371	*	1.166
18	0.0	10.970990	*	1.156
20	0.0	10.389912	*	1.149
25	0.0	9.952623	*	1.144
30	0.0	9.222510	*	1.134
35	0.0	8.773398	*	1.128
40	0.0	8.469681	*	1.124
45	0.0	8.250751	*	1.121
50	0.0	8.085519	*	1.118
55	0.0	7.956418	*	1.116
60	0.0	7.852783	*	1.115
		7.767762	*	1.114

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.00	540379.203234	*	4.000
1	0.00	999.166619	*	2.001
2	0.00	141.108461	*	1.592
3	0.00	56.177188	*	1.426
4	0.00	33.202463	*	1.338
5	0.00	23.703309	*	1.285
6	0.00	18.772270	*	1.249
7	0.00	15.829490	*	1.224
8	0.00	13.901803	*	1.206
9	0.00	12.552745	*	1.192
10	0.00	10.804204	*	1.172
11	0.00	9.729366	*	1.158
12	0.00	9.005937	*	1.148
13	0.00	8.487455	*	1.141
14	0.00	8.098380	*	1.135
15	0.00	7.451075	*	1.125
16	0.00	7.054457	*	1.118
17	1.9E-7	6.786970	9999999.0	1.114
18	2.1E-7	6.594540	9999999.0	1.111
19	2.3E-7	6.449532	4999999.0	1.111
20	2.4E-7	6.336371	4999999.0	1.108
25	2.6E-7	6.245620	4999999.0	1.106
30	2.7E-7	6.171231	4999999.0	1.104
35				1.103
40				
45				
50				
55				
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.00	562499.577559	*	4.000
1	0.00	999.249939	*	2.001
2	0.00	137.100363	*	1.592
3	0.000006	53.435832	9999999.0	1.426
4	0.000014	31.095012	1999999.0	1.336
5	0.000024	21.923553	6666665.7	1.282
6	0.000035	17.198011	312499.0	1.246
7	0.000047	14.391608	178570.4	1.220
8	0.000060	12.560349	112358.6	1.202
9	0.000073	11.282788	78124.0	1.187
10	0.000097	9.632775	45044.0	1.166
11	0.000120	8.622380	30302.0	1.152
12	0.000141	7.944273	22370.4	1.142
13	0.000160	7.459357	17635.7	1.134
14	0.000177	7.096122	14576.3	1.128
15	0.000212	6.493165	10297.7	1.117
20	0.000240	6.124641	8155.6	1.111
25	0.000262	5.876533	6890.9	1.106
30	0.000280	5.698274	6070.6	1.102
35	0.000295	5.564078	5499.6	1.100
40	0.000308	5.459437	5080.3	1.098
45	0.000318	5.375573	4758.6	1.096
50	0.000328	5.306865	4507.6	1.094
55				
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CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.0	576404.562282	*	4.000
1	0.0	999.299930	*	2.001
2	0.000072	134.580051	3333332.3	1.591
3	0.000183	51.711642	357141.9	1.423
4	0.000327	29.752529	95237.1	1.334
5	0.000486	20.802859	38460.5	1.290
6	0.000649	16.206060	19919.3	1.243
7	0.000810	13.485014	12047.2	1.217
8	0.000964	11.714053	8109.3	1.198
9	0.001110	10.481167	5884.8	1.183
10	0.001378	8.892661	3611.7	1.161
12	0.001612	7.922453	2532.6	1.147
14	0.001816	7.272587	1934.0	1.136
16	0.001995	6.808575	1564.2	1.128
18	0.002152	6.461424	1317.9	1.122
20	0.002472	5.886056	964.4	1.111
25	0.002714	5.535001	780.7	1.103
30	0.002904	5.298939	670.4	1.098
35	0.003056	5.129488	597.4	1.095
40	0.003131	5.002011	545.9	1.092
45	0.003285	4.902664	507.7	1.090
50	0.003373	4.823079	478.3	1.088
55	0.003448	4.757902	455.1	1.086
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.0	585937.109212	*	4.000
1	0.0	999.333261	*	2.001
2	0.000463	132.847623	588234.3	1.591
3	0.000981	50.525350	78739.2	1.423
4	0.001569	28.834885	22987.5	1.333
5	0.002168	20.030380	9919.6	1.278
6	0.002748	15.521760	5360.9	1.241
7	0.003296	12.859130	3350.2	1.215
8	0.003809	11.129405	2310.1	1.195
9	0.004283	9.927048	1708.4	1.180
10	0.005128	8.380532	1077.1	1.157
12	0.005849	7.437729	769.3	1.142
14	0.006467	6.807103	595.1	1.131
16	0.007001	6.357321	485.9	1.123
18	0.007466	6.021112	412.4	1.116
20	0.008398	5.464499	305.6	1.105
25	0.009097	5.125306	249.3	1.097
30	0.009638	4.897421	215.1	1.092
35	0.010070	4.733945	192.4	1.088
40	0.010422	4.611025	176.2	1.085
45	0.010715	4.515268	164.2	1.083
50	0.010961	4.438584	155.0	1.081
55	0.011172	4.375800	147.6	1.079
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.0	552873.290010	*	4.000
1	0.000419	999.357186	9999999.0	2.001
2	0.001396	131.583257	2222221.2	1.591
3	0.002652	49.658649	332221.6	1.422
4	0.003976	28.163791	10276.5	1.332
5	0.005265	19.464925	4588.3	1.276
6	0.006478	15.020426	2540.3	1.239
7	0.007601	12.400236	1614.5	1.212
8	0.008634	10.700443	1126.9	1.192
9	0.009579	9.520224	841.0	1.177
10	0.011240	8.004121	537.0	1.154
12	0.012640	7.081132	386.7	1.139
14	0.013830	6.464397	300.8	1.127
16	0.014851	6.024876	246.5	1.119
18	0.015736	5.696548	205.8	1.112
20	0.017499	5.153422	156.1	1.100
25	0.018813	4.822745	127.6	1.092
30	0.019827	4.600720	110.2	1.087
35	0.020633	4.441523	98.6	1.083
40	0.021239	4.321863	90.4	1.079
45	0.021833	4.228673	84.3	1.077
50	0.022291	4.154061	79.5	1.075
55	0.022633	4.092986	75.7	1.073
60				

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.0	598144.159612	*	4.000
1	0.000999	999.375174	3333332.3	2.001
2	0.002831	130.619735	120480.9	1.561
3	0.005102	48.997480	19378.8	1.422
4	0.007340	27.651338	6191.0	1.331
5	0.009463	19.032740	2821.5	1.275
6	0.011426	14.636918	1583.5	1.238
7	0.013222	12.048915	1015.8	1.211
8	0.014858	10.371796	713.7	1.190
9	0.016348	9.208329	533.2	1.174
10	0.018944	7.715201	343.9	1.151
12	0.021119	6.807149	248.5	1.136
14	0.022960	6.200865	193.7	1.124
16	0.024534	5.769049	158.9	1.115
18	0.025895	5.446631	135.3	1.108
20	0.028599	4.913593	100.7	1.096
25	0.030607	4.589268	82.3	1.088
30	0.032156	4.371605	71.1	1.082
35	0.033385	4.215587	63.5	1.078
40	0.034385	4.098345	58.2	1.075
45	0.035213	4.007056	54.2	1.072
50	0.035910	3.933978	51.1	1.070
55	0.036505	3.874166	48.7	1.068
60				

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESS IVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.0	602284.001018	*	4.000
1	0.001840	999.389219	2499555.0	2.001
2	0.004799	129.861047	80644.2	1.591
3	0.008099	48.476350	13439.9	1.421
4	0.011328	27.247041	4394.6	1.331
5	0.014340	18.691461	2029.5	1.274
6	0.017096	14.333820	1148.6	1.237
7	0.019600	11.771034	740.8	1.209
8	0.021869	10.111658	522.4	1.189
10	0.023927	8.561283	392.7	1.173
12	0.027501	7.486077	253.0	1.149
14	0.030484	6.589647	183.1	1.133
16	0.033003	5.991475	142.7	1.121
18	0.035155	5.565627	117.1	1.112
20	0.037012	5.247776	99.7	1.105
25	0.040698	4.722513	74.1	1.092
30	0.043434	4.403063	60.5	1.084
35	0.045542	4.188738	52.1	1.078
40	0.047215	4.035145	46.6	1.074
45	0.048575	3.919746	42.6	1.071
50	0.049701	3.829902	39.6	1.068
55	0.050650	3.757989	37.3	1.066
60	0.051459	3.699135	35.5	1.064

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.0	605620.969187	*	4.000
1	0.002890	999.400503	1666665.7	2.001
2	0.007004	129.248118	60240.0	1.591
3	0.011413	48.054948	10383.2	1.421
4	0.015644	26.919819	3444.9	1.330
5	0.019549	18.415004	1604.7	1.274
6	0.023098	14.088090	912.9	1.236
7	0.026308	11.545575	590.7	1.208
8	0.029208	9.900443	417.4	1.187
10	0.031832	8.760564	314.2	1.171
12	0.036380	7.299696	202.6	1.147
14	0.040169	6.412538	146.6	1.131
16	0.043366	5.820820	114.3	1.116
18	0.046095	5.399708	93.7	1.110
20	0.048430	5.085472	79.7	1.102
25	0.053123	4.566340	59.1	1.089
30	0.056590	4.250719	48.1	1.081
35	0.059263	4.039004	41.4	1.075
40	0.061384	3.887302	36.9	1.071
45	0.063109	3.773333	33.7	1.067
50	0.064538	3.684611	31.3	1.065
55	0.065741	3.613599	29.5	1.062
60	0.066767	3.555485	28.0	1.061

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.0	610667.8322302	*	4.000
1	0.0005369	999.417505	1111110.1	2.001
2	0.0011790	128.318528	41665.7	1.590
3	0.018340	47.415054	7433.9	1.421
4	0.024483	26.422340	2510.3	1.329
5	0.030080	17.994215	1180.6	1.273
6	0.035131	13.713653	675.4	1.234
7	0.039677	11.201664	438.4	1.206
8	0.043773	9.577940	310.2	1.185
9	0.047473	8.453804	233.6	1.169
10	0.053876	7.014375	150.6	1.145
12	0.059207	6.141017	108.8	1.128
14	0.063704	5.558862	84.6	1.115
16	0.067544	5.144737	69.2	1.106
18	0.070859	4.833813	58.8	1.098
20	0.077445	4.325634	43.3	1.085
25	0.082339	4.015554	35.1	1.076
30	0.086116	3.807589	30.1	1.070
35	0.089118	3.658587	26.3	1.066
40	0.091560	3.546652	24.4	1.062
45	0.093586	3.459514	22.6	1.059
50	0.095293	3.389771	21.2	1.057
55	0.096750	3.332695	20.1	1.055
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.0	614302.749952	*	4.000
1	0.008033	999.429707	833332.3	2.001
2	0.016579	127.646865	333332.3	1.590
3	0.025054	46.952032	6074.3	1.420
4	0.032903	26.061845	2071.5	1.329
5	0.040011	17.688857	979.2	1.272
6	0.046404	13.441559	561.5	1.233
7	0.052143	10.951425	364.8	1.205
8	0.057321	9.342989	258.2	1.184
9	0.061993	8.230061	194.4	1.167
10	0.070078	6.805827	125.1	1.143
12	0.076816	5.942186	90.2	1.126
14	0.082507	5.366719	69.9	1.113
16	0.087372	4.957447	57.1	1.103
18	0.091577	4.652188	48.3	1.096
20	0.099946	4.148123	35.5	1.082
25	0.106182	3.841770	28.6	1.073
30	0.111004	3.636296	24.4	1.067
35	0.114843	3.489067	21.6	1.062
40	0.117971	3.378453	19.7	1.058
45	0.120568	3.292335	18.2	1.055
50	0.122759	3.223401	17.0	1.053
55	0.124631	3.166983	16.1	1.051
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.0	617045.192002	*	4.000
1	0.010651	999.438869	714284.7	2.001
2	0.021074	127.138324	28900.7	1.590
3	0.031232	46.601378	5326.7	1.420
4	0.040573	25.788499	1827.2	1.328
5	0.049005	17.457037	865.9	1.271
6	0.056577	13.234747	497.0	1.232
7	0.063380	10.761008	322.9	1.204
8	0.069506	9.164010	228.4	1.183
9	0.075041	8.059445	171.8	1.166
10	0.084631	6.646496	110.4	1.141
12	0.092634	5.790024	79.3	1.124
14	0.099405	5.219454	61.4	1.111
16	0.105203	4.813710	50.0	1.101
18	0.110221	4.511096	42.2	1.093
20	0.120231	4.011386	30.8	1.079
25	0.127711	3.707641	24.8	1.070
30	0.133508	3.503880	21.1	1.064
35	0.138132	3.357850	18.6	1.059
40	0.141906	3.248117	16.9	1.055
45	0.145043	3.162670	15.6	1.052
50	0.147693	3.094263	14.6	1.050
55	0.149960	3.038268	13.8	1.048
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.0	619187.694625	*	4.000
1	0.013115	999.445987	624999.0	2.000
2	0.025174	126.741089	26177.0	1.590
3	0.036794	46.326577	4867.5	1.420
4	0.047433	25.574058	1674.9	1.328
5	0.057020	17.274984	794.9	1.271
6	0.065627	13.072167	456.4	1.232
7	0.073360	10.611169	296.4	1.204
8	0.080328	9.023038	209.6	1.182
9	0.086629	7.924938	157.5	1.165
10	0.097539	6.520676	101.0	1.140
12	0.106697	5.669682	72.4	1.123
14	0.114441	5.102828	55.9	1.110
16	0.121084	4.699739	45.5	1.100
18	0.126842	4.399098	38.3	1.092
20	0.138354	3.902593	27.9	1.078
25	0.146981	3.600725	22.3	1.068
30	0.153684	3.398170	18.9	1.062
35	0.159041	3.252967	16.6	1.057
40	0.163420	3.143830	15.0	1.053
45	0.167066	3.058827	13.9	1.050
50	0.170149	2.990762	12.9	1.047
55	0.172789	2.935036	12.2	1.045
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
20	1 0.0	620907.664787	* 4.000	4.000
	2 0.0153384	999.451691	555554.6	2.000
	3 0.0288667	126.421246	24389.2	1.590
	4 0.041759	46.105400	4561.0	1.420
	5 0.053530	25.401310	1573.1	1.328
	6 0.064128	17.128154	747.1	1.271
	7 0.073643	12.940963	428.9	1.232
	8 0.082197	10.490143	278.5	1.203
	9 0.089910	8.909080	196.7	1.181
	10 0.096890	7.816119	147.7	1.164
	12 0.109016	6.418733	94.5	1.139
	14 0.119171	5.572047	67.7	1.122
	16 0.127793	5.008091	52.2	1.109
	18 0.135201	4.607055	42.3	1.098
	20 0.141631	4.307927	35.6	1.090
	25 0.154515	3.813840	25.8	1.076
	30 0.164204	3.513353	20.6	1.067
	35 0.171747	3.311660	17.4	1.060
	40 0.177787	3.167032	15.3	1.055
	45 0.182732	3.058296	13.8	1.051
	50 0.186856	2.973585	12.7	1.048
	55 0.190347	2.905737	11.8	1.045
	60 0.193340	2.850177	11.1	1.043

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
25	1 0.0	624016.828156	* 4.000	4.000
	2 0.020201	999.461946	459595.0	2.000
	3 0.036515	125.841762	21880.8	1.590
	4 0.051939	45.704213	4124.4	1.420
	5 0.065973	25.087586	1426.8	1.328
	6 0.078606	16.861298	678.0	1.270
	7 0.089959	12.702106	389.1	1.231
	8 0.100132	10.269552	252.3	1.202
	9 0.109418	8.701130	178.0	1.180
	10 0.117796	7.617326	133.4	1.163
	12 0.132394	6.232108	85.0	1.138
	14 0.144674	5.392960	60.6	1.120
	16 0.155142	4.834011	46.6	1.107
	18 0.164170	4.436472	37.6	1.096
	20 0.172035	4.139878	31.6	1.088
	25 0.187880	3.649721	22.7	1.073
	30 0.199868	3.351360	18.0	1.064
	35 0.209257	3.150916	15.1	1.057
	40 0.216810	3.007061	13.2	1.052
	45 0.223019	2.898821	11.8	1.048
	50 0.228214	2.814437	10.8	1.045
	55 0.232624	2.746806	10.1	1.042
	60 0.236415	2.691392	9.5	1.040

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.0	626098.966436	*	4.000
1	0.023979	999.468755	454544.5	2.000
2	0.042377	125.452711	20617.6	1.590
3	0.059674	45.434506	3902.2	1.420
4	0.075393	24.876383	1351.6	1.327
5	0.089550	16.681346	642.3	1.270
6	0.102290	12.540844	368.4	1.231
7	0.113732	10.120411	238.6	1.202
8	0.124183	8.560342	168.1	1.180
9	0.133635	7.482556	125.9	1.163
10	0.150152	6.105263	80.0	1.137
12	0.164097	5.270947	56.9	1.119
14	0.176026	4.715148	43.6	1.106
16	0.186348	4.319757	35.1	1.095
18	0.195366	4.024680	29.4	1.087
20	0.213620	3.536751	21.0	1.072
25	0.227512	3.239467	16.5	1.062
30	0.238443	3.039562	13.8	1.055
35	0.247278	2.895967	12.0	1.050
40	0.254564	2.787836	10.8	1.046
45	0.260679	2.703472	9.3	1.042
50	0.265885	2.635812	9.1	1.040
55	0.270371	2.580339	8.5	1.038
60				

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
35	0.0	627590.727820	*	4.000
1	0.026972	999.473620	434781.6	2.000
2	0.046960	125.173461	19919.3	1.590
3	0.065690	45.240729	3772.6	1.420
4	0.082706	24.724483	1307.7	1.327
5	0.098044	16.551793	621.4	1.270
6	0.111863	12.424614	356.2	1.230
7	0.124346	10.012803	230.5	1.201
8	0.135664	8.458653	162.3	1.180
9	0.145964	7.385113	121.4	1.162
10	0.164006	6.013365	77.0	1.137
12	0.179237	5.182384	54.6	1.118
14	0.192396	4.628718	41.3	1.105
16	0.203770	4.234751	33.6	1.094
18	0.213733	3.940648	28.0	1.086
20	0.233979	3.454060	19.9	1.071
25	0.249465	3.157327	15.6	1.061
30	0.261704	2.957613	13.0	1.054
35	0.271629	2.814033	11.3	1.048
40	0.279843	2.705827	10.1	1.044
45	0.286755	2.621343	9.2	1.041
50	0.292654	2.553541	8.5	1.038
55	0.297749	2.497917	7.9	1.036
60				

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
40	1 0.0	628712.027091	* 434781.6	4.000
	2 0.029386	999.477257	19454.3	2.000
	3 0.050621	124.963276	3690.4	1.590
	4 0.070480	45.054769	1279.7	1.420
	5 0.088524	24.609976	607.9	1.327
	6 0.104800	16.454050	348.3	1.270
	7 0.119481	12.336851	225.3	1.230
	8 0.132760	9.931482	158.5	1.201
	9 0.144814	8.381741	118.5	1.179
	10 0.155800	7.311352	75.0	1.162
	12 0.175081	5.943691	53.2	1.136
	14 0.191454	5.115136	40.6	1.118
	16 0.205535	4.562996	32.6	1.104
	18 0.217779	4.170022	27.2	1.094
	20 0.228529	3.876580	21.2	1.085
	25 0.250446	3.290833	15.2	1.070
	30 0.267283	3.094364	11.1	1.060
	35 0.280642	2.854660	12.5	1.053
	40 0.291509	2.750973	10.9	1.047
	45 0.300527	2.642504	9.6	1.043
	50 0.308137	2.557934	8.8	1.040
	55 0.314645	2.489938	8.1	1.037
	60 0.320277	2.434122	7.5	1.035

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
45	1 0.0	629585.606220	* 416665.7	4.000
	2 0.031365	999.480063	19119.5	2.000
	3 0.053604	124.799352	3635.4	1.590
	4 0.074376	44.980869	1260.5	1.419
	5 0.093251	24.520563	598.7	1.327
	6 0.110290	16.377678	342.9	1.270
	7 0.125874	12.268231	221.7	1.230
	8 0.139604	9.867856	155.9	1.201
	9 0.152264	8.321524	116.4	1.179
	10 0.163815	7.253564	73.7	1.162
	12 0.184122	5.889034	52.1	1.136
	14 0.201403	5.062317	39.7	1.118
	16 0.216296	4.511313	31.9	1.104
	18 0.229272	4.119063	26.5	1.093
	20 0.240686	3.826086	18.7	1.085
	25 0.264024	3.340879	14.6	1.069
	30 0.282021	3.044512	12.1	1.059
	35 0.296347	2.844722	10.5	1.052
	40 0.308034	2.700867	9.3	1.046
	45 0.317759	2.592294	8.5	1.042
	50 0.325981	2.507409	7.8	1.039
	55 0.333029	2.439198	7.3	1.036
	60 0.339138	2.383173		1.034

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
50	0.0	630285.370070	*	4.000
1	0.033013	999.482337	416665.7	2.000
2	0.056077	124.667929	18902.6	1.590
3	0.077600	44.889508	3596.1	1.419
4	0.097164	24.448809	1247.0	1.327
5	0.114834	16.316357	592.2	1.269
6	0.130803	12.213103	339.1	1.230
7	0.145275	9.816713	219.2	1.201
8	0.158441	8.273095	154.0	1.179
9	0.170465	7.207062	115.0	1.162
10	0.191634	5.845004	72.7	1.136
12	0.209682	5.019722	51.4	1.117
14	0.225264	4.465553	39.1	1.104
16	0.238864	4.077887	31.4	1.093
18	0.250845	3.785249	26.1	1.084
20	0.275405	3.300394	18.4	1.069
25	0.294403	3.004034	14.3	1.059
30	0.309578	2.804107	11.9	1.051
35	0.321983	2.660054	10.2	1.046
40	0.332332	2.551261	9.1	1.042
45	0.341100	2.466151	8.2	1.038
50	0.348627	2.397721	7.6	1.035
55	0.355163	2.341485	7.0	1.033
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

DF	C-1	C-2	A-2/A-1	REDUCTION
55	0.0	630858.524891	*	4.000
1	0.034405	999.484166	416665.7	2.000
2	0.058159	124.560214	18760.7	1.590
3	0.080312	44.814600	3566.6	1.419
4	0.100452	24.389951	1236.9	1.327
5	0.118655	16.266035	587.3	1.269
6	0.135117	12.167844	336.2	1.230
7	0.150048	9.774704	217.3	1.201
8	0.163641	8.233297	152.6	1.179
9	0.176067	7.163830	113.9	1.161
10	0.197970	5.808773	71.9	1.136
12	0.216675	4.984640	50.8	1.117
14	0.232848	4.435202	38.7	1.103
16	0.246985	4.043917	31.0	1.093
18	0.259457	3.751532	25.8	1.084
20	0.285079	3.266906	18.1	1.069
25	0.304961	2.970496	14.1	1.058
30	0.320874	2.770407	11.7	1.051
35	0.333919	2.626144	10.0	1.045
40	0.344820	2.517128	8.9	1.041
45	0.354073	2.431794	8.0	1.038
50	0.362031	2.363147	7.4	1.035
55	0.368952	2.306704	6.9	1.032
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.0	631336.553997	*	4.000
1	0.035595	999.485705	399999.0	2.000
2	0.059934	124.470323	18621.0	1.590
3	0.082621	44.752065	3545.1	1.419
4	0.103253	24.340758	1229.5	1.327
5	0.121910	16.223995	583.7	1.269
6	0.138793	12.130019	334.0	1.230
7	0.154117	9.739583	215.8	1.201
8	0.168078	8.200011	151.6	1.179
9	0.180849	7.136842	113.1	1.161
10	0.203385	5.778433	71.4	1.135
12	0.222657	4.955242	50.4	1.117
14	0.239344	4.406361	38.3	1.103
16	0.253948	4.015409	30.7	1.093
18	0.266848	3.723216	25.5	1.084
20	0.293401	3.238737	17.9	1.068
25	0.314059	2.942245	13.9	1.058
30	0.330630	2.741981	11.5	1.051
35	0.344244	2.597509	9.9	1.045
40	0.355640	2.488272	8.7	1.041
45	0.365330	2.402720	7.9	1.037
50	0.373676	2.333863	7.3	1.034
55	0.380944	2.277221	6.7	1.032
60				

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO VARIANCES

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	0.472136	*	2.000
2	0.0	0.535556	*	1.473
3	0.0	0.682207	*	1.254
4	0.0	0.350721	*	1.303
5	0.0	0.178234	*	1.276
6	0.0	0.072897	*	1.259
7	0.0	0.002010	*	1.247
8	0.0	0.951093	*	1.238
9	0.0	0.912768	*	1.232
10	0.0	0.882888	*	1.227
12	0.0	0.839325	*	1.220
14	0.0	0.809107	*	1.214
16	0.0	0.786920	*	1.211
18	0.0	0.769940	*	1.208
20	0.0	0.756528	*	1.205
25	0.0	0.732764	*	1.200
30	0.0	0.717188	*	1.199
35	0.0	0.706189	*	1.197
40	0.0	0.698010	*	1.195
45	0.0	0.691689	*	1.194
50	0.0	0.686657	*	1.193
55	0.0	0.682557	*	1.192
60	0.0	0.679152	*	1.192

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.000760	1.095448	262.4	1.940
3	0.006029	1.154443	222.4	1.360
4	0.012164	1.071415	335.6	1.222
5	0.017255	1.675689	110.7	1.164
6	0.021260	1.474487	133.5	1.132
7	0.024430	1.353521	7.3	1.113
8	0.026950	1.273031	6.6	1.100
9	0.029013	1.215706	6.0	1.091
10	0.030722	1.172846	5.6	1.084
12	0.032158	1.139607	5.3	1.078
14	0.034435	1.091440	4.9	1.070
16	0.036154	1.058239	4.6	1.065
18	0.037498	1.033976	4.4	1.061
20	0.038576	1.015475	4.3	1.058
25	0.039459	1.000904	4.2	1.056
30	0.041098	0.975178	4.0	1.052
35	0.042226	0.958381	3.8	1.049
40	0.043050	0.946553	3.8	1.047
45	0.043678	0.937774	3.7	1.046
50	0.044173	0.931000	3.6	1.045
55	0.044572	0.925614	3.6	1.044
60	0.044907	0.921229	3.6	1.043
	0.045178	0.917591	3.5	1.043

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
3	1	13	12	1
1	0.0083362	0.287319	1.2	1.940
2	0.030936	0.401782	20.4	1.352
3	0.050043	0.198184	10.5	1.209
4	0.064277	0.757367	7.3	1.147
5	0.074940	0.532427	5.9	1.115
6	0.083132	0.396708	5.0	1.094
7	0.089587	0.306108	4.5	1.081
8	0.094793	0.241400	4.1	1.071
9	0.099072	0.192398	3.8	1.064
10	0.102648	0.155200	3.6	1.058
11	0.108283	0.100424	3.3	1.050
12	0.112515	0.062549	3.1	1.045
14	0.115809	0.034802	3.0	1.041
16	0.118444	0.013600	2.9	1.038
18	0.120599	0.996872	2.8	1.035
20	0.124588	0.967274	2.6	1.031
25	0.127327	0.947898	2.5	1.029
33	0.129324	0.934229	2.3	1.027
40	0.130844	0.924069	2.1	1.026
45	0.132040	0.916220	2.0	1.025
50	0.1333005	0.909974	2.0	1.024
55	0.133801	0.904886	2.0	1.023
60	0.134467	0.900661	2.0	1.023

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
4	1	13	10	1
1	0.018787	0.911995	5.6	1.949
2	0.055556	0.500000	9.0	1.357
3	0.084368	0.228335	9.8	1.210
4	0.105419	0.761511	6.8	1.147
5	0.121093	0.522564	5.4	1.112
6	0.133125	0.377953	4.6	1.091
7	0.142605	0.281148	4.1	1.076
8	0.150254	0.211835	3.7	1.066
9	0.156549	0.159765	3.5	1.059
10	0.161816	0.119216	3.3	1.053
11	0.167012	0.060151	3.1	1.044
12	0.176378	0.019195	3.0	1.039
14	0.181252	0.993912	2.8	1.035
16	0.185156	0.966098	2.6	1.031
18	0.188333	0.947904	2.5	1.029
20	0.194279	0.915643	2.4	1.025
25	0.198356	0.894473	2.3	1.022
33	0.201331	0.879512	2.1	1.021
40	0.203599	0.868375	2.1	1.019
45	0.205384	0.859764	2.0	1.018
50	0.206825	0.852905	2.0	1.017
55	0.208014	0.847313	2.0	1.017
60	0.209011	0.842667	2.0	1.016

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.028254	14.288809	103.031	1.957
1	0.075399	4.548915	19.031	1.364
2	0.111301	3.234464	9.803	1.214
3	0.137426	2.750920	6.803	1.145
4	0.156906	2.502750	5.303	1.113
5	0.171884	2.352158	4.503	1.091
6	0.183721	2.251102	4.003	1.076
7	0.193296	2.178586	3.603	1.065
8	0.201194	2.124001	3.303	1.057
9	0.207816	2.081418	3.103	1.051
10	0.212900	2.049253	2.903	1.042
11	0.216966	2.023335	2.703	1.036
12	0.220137	2.001984	2.503	1.032
13	0.222533	1.984433	2.303	1.029
14	0.224139	1.970054	2.103	1.026
15	0.224895	1.958624	2.003	1.022
16	0.225416	1.949911	1.903	1.019
17	0.225797	1.943694	1.803	1.018
18	0.226088	1.938221	1.703	1.016
19	0.226317	1.933608	1.603	1.015
20	0.226502	1.929264	1.503	1.014
21	0.226655	1.92573	1.403	1.014
22	0.226783	1.92292	1.303	1.013

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.036113	14.540191	104.2	1.964
1	0.091026	4.577269	19.031	1.369
2	0.132286	3.233433	9.803	1.218
3	0.162331	2.738166	6.803	1.153
4	0.184767	2.483391	5.303	1.115
5	0.202084	2.328436	4.503	1.092
6	0.215811	2.224228	4.003	1.077
7	0.226945	2.149304	3.603	1.066
8	0.236151	2.092807	3.303	1.057
9	0.243887	2.048663	3.103	1.051
10	0.250157	2.013403	2.903	1.042
11	0.255449	1.983908	2.703	1.035
12	0.260727	1.959911	2.503	1.028
13	0.265831	1.938042	2.303	1.025
14	0.270853	1.918227	2.103	1.022
15	0.275793	1.899574	2.003	1.018
16	0.280655	1.883769	1.903	1.016
17	0.285393	1.771229	1.803	1.015
18	0.290023	1.761512	1.703	1.013
19	0.294546	1.753760	1.603	1.013
20	0.300086	1.747431	1.503	1.012
21	0.306553	1.742167	1.403	1.011
22	0.313338			
23	0.314874			

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.042603	14.719753	106.1	1.969
1	0.103454	4.555470	19.6	1.374
2	0.148897	3.230174	10.0	1.222
3	0.182021	2.726191	6.9	1.154
4	0.206861	2.466416	5.4	1.117
5	0.226079	2.308104	4.5	1.094
6	0.241357	2.201439	4.0	1.078
7	0.253782	2.124615	3.6	1.066
8	0.264080	2.066596	3.3	1.058
9	0.272751	2.021196	3.1	1.051
10	0.286540	1.954666	2.8	1.043
12	0.297015	1.908203	2.6	1.035
14	0.305240	1.873884	2.4	1.031
16	0.311870	1.847482	2.3	1.027
18	0.317328	1.826531	2.2	1.024
20	0.322751	1.789171	2.0	1.020
25	0.334579	1.764494	1.9	1.017
30	0.339766	1.746968	1.9	1.015
35	0.343736	1.733375	1.8	1.014
40	0.346873	1.723719	1.8	1.012
45	0.349443	1.715611	1.7	1.011
50	0.351513	1.708988	1.7	1.011
55	0.353278	1.703475	1.7	1.010
60				

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.047933	14.854438	108.2	1.973
1	0.113505	4.608027	20.0	1.378
2	0.162302	3.226349	10.0	1.225
3	0.197939	2.715611	7.0	1.157
4	0.224740	2.451902	5.5	1.119
5	0.245535	2.290913	4.6	1.093
6	0.262211	2.182265	4.0	1.076
7	0.275624	2.103894	3.6	1.067
8	0.286847	2.044622	3.3	1.058
9	0.296316	1.996184	3.1	1.053
10	0.311412	1.930018	2.8	1.043
12	0.322911	1.882320	2.5	1.035
14	0.331963	1.847031	2.4	1.030
16	0.339272	1.819844	2.3	1.027
18	0.345300	1.798243	2.2	1.024
20	0.356577	1.759662	2.0	1.019
25	0.364418	1.734128	1.9	1.016
30	0.370137	1.715968	1.8	1.014
35	0.374609	1.702384	1.8	1.013
40	0.378106	1.691839	1.7	1.012
45	0.380943	1.685413	1.7	1.011
50	0.383288	1.676526	1.7	1.010
55	0.385261	1.670791	1.6	1.010
60				

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.0522371	14.9592221	110.2	1.976
2	0.1217772	4.617161	20.4	1.381
3	0.173316	3.222559	10.4	1.228
4	0.211036	2.706422	7.1	1.159
5	0.239477	2.439527	5.5	1.121
6	0.261602	2.276345	4.6	1.057
7	0.279281	2.166057	4.0	1.080
8	0.293724	2.086394	3.6	1.068
9	0.305743	2.026070	3.3	1.059
10	0.315901	1.978753	3.1	1.052
11	0.322133	1.909193	2.8	1.042
12	0.324531	1.860432	2.5	1.035
13	0.324331	1.824301	2.4	1.030
14	0.322224	1.796429	2.3	1.027
15	0.318760	1.774259	2.2	1.024
20	0.311013	1.734600	2.0	1.019
25	0.305535	1.708303	1.9	1.016
30	0.301851	1.689575	1.8	1.014
40	0.400684	1.675550	1.8	1.012
45	0.404512	1.664653	1.7	1.011
50	0.407619	1.655940	1.7	1.010
55	0.410191	1.648814	1.6	1.010
60	0.412335	1.642876	1.6	1.009

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.0561111	15.0433077	112.2	1.979
2	0.128675	4.624081	20.7	1.384
3	0.182514	3.219015	10.5	1.230
4	0.221986	2.698458	7.3	1.161
5	0.251820	2.428926	5.6	1.123
6	0.275082	2.263911	4.7	1.098
7	0.293710	2.152239	4.1	1.081
8	0.308958	2.071479	3.7	1.069
9	0.321670	2.010256	3.4	1.060
10	0.332431	1.962183	3.1	1.053
11	0.340662	1.891415	2.8	1.043
12	0.346285	1.841726	2.6	1.036
13	0.373232	1.804855	2.4	1.031
14	0.381735	1.776377	2.3	1.027
15	0.388727	1.753702	2.2	1.024
20	0.401863	1.713079	2.0	1.019
25	0.411042	1.686097	1.9	1.016
30	0.417820	1.666854	1.8	1.014
40	0.423303	1.652429	1.7	1.012
45	0.427162	1.641211	1.7	1.011
50	0.430519	1.632235	1.7	1.010
55	0.433300	1.624889	1.6	1.009
60	0.435641	1.618766	1.6	1.009

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.062042	15.168941	115.6	1.983
13	0.139530	4.633835	121.3	1.389
14	0.196977	3.212850	10.8	1.234
15	0.239238	2.685479	7.4	1.164
16	0.271310	2.411827	5.7	1.125
17	0.296416	2.243913	4.8	1.100
18	0.316594	2.130031	4.2	1.083
19	0.333168	2.047501	3.7	1.071
20	0.347027	1.984814	3.4	1.062
22	0.358793	1.935503	3.2	1.054
24	0.377701	1.862740	2.8	1.044
26	0.392240	1.811500	2.6	1.036
28	0.403776	1.773383	2.4	1.031
30	0.413156	1.743878	2.3	1.027
32	0.420935	1.720340	2.2	1.024
34	0.435607	1.678058	2.0	1.019
36	0.445905	1.649883	1.9	1.016
38	0.453536	1.629738	1.8	1.013
40	0.459418	1.614608	1.7	1.012
45	0.464093	1.602321	1.7	1.011
50	0.467897	1.593378	1.6	1.010
55	0.471054	1.585641	1.6	1.009
60	0.473715	1.579185	1.6	1.008

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.066518	15.258927	118.4	1.986
15	0.147659	4.640356	121.8	1.392
16	0.207816	3.207827	10.0	1.237
17	0.252198	2.675442	7.5	1.167
18	0.285990	2.398713	5.8	1.128
19	0.312527	2.228604	4.9	1.103
20	0.333921	2.113028	4.2	1.085
22	0.351541	2.029128	3.8	1.073
24	0.366313	1.965298	3.5	1.063
26	0.378883	1.913012	3.2	1.056
28	0.399147	1.840660	2.8	1.045
30	0.414787	1.788171	2.6	1.037
32	0.427235	1.749039	2.4	1.032
34	0.437385	1.718691	2.3	1.028
36	0.445823	1.694439	2.2	1.025
38	0.461791	1.650771	2.0	1.019
40	0.473045	1.621586	1.9	1.016
45	0.481410	1.600672	1.8	1.013
50	0.487875	1.584934	1.7	1.012
55	0.493023	1.572657	1.7	1.010
55	0.497220	1.562807	1.6	1.009
55	0.500707	1.554729	1.6	1.009
60	0.503651	1.547982	1.6	1.008

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.070007	15.326475	120.8	.989
1	0.153966	4.645013	22.2	.395
2	0.216235	3.203723	11.2	.240
3	0.262283	2.667490	7.6	.169
4	0.297438	2.388371	5.9	.130
5	0.325120	2.216540	4.9	.104
6	0.347491	2.099623	4.3	.087
7	0.365959	2.014628	3.8	.074
8	0.381477	1.949878	3.5	.064
9	0.394706	1.898801	3.2	.057
10	0.416090	1.823151	2.9	.046
11	0.432647	1.769630	2.6	.038
12	0.445862	1.729653	2.4	.032
14	0.456665	1.698597	2.2	.028
16	0.465662	1.673743	2.2	.025
20	0.482743	1.628892	2.0	.019
25	0.494825	1.598838	1.9	.016
30	0.503832	1.577255	1.8	.013
35	0.510809	1.560987	1.7	.012
40	0.516375	1.548277	1.7	.010
45	0.520920	1.538069	1.6	.009
50	0.524702	1.529688	1.6	.008
55	0.527898	1.522682	1.6	.008
60				

CONFIDENCE LEVEL = .3  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.072801	15.379034	122.8	.991
1	0.153999	4.648500	22.6	.397
2	0.222958	3.200334	11.4	.247
3	0.270351	2.661032	7.7	.174
4	0.306613	2.380023	6.0	.131
5	0.335231	2.206802	5.0	.106
6	0.358406	2.088794	4.3	.088
7	0.377577	2.002904	3.9	.075
8	0.393713	1.937396	3.5	.065
9	0.407494	1.885665	3.2	.058
10	0.422982	1.808931	2.9	.046
11	0.447154	1.754541	2.6	.039
12	0.461023	1.713848	2.5	.033
14	0.472383	1.682198	2.2	.029
16	0.481866	1.656816	2.2	.025
20	0.499914	1.610944	2.0	.019
25	0.512723	1.580130	1.9	.016
30	0.522297	1.557958	1.8	.013
35	0.529730	1.541220	1.7	.012
40	0.535669	1.528126	1.7	.010
45	0.540527	1.517597	1.6	.009
50	0.544573	1.508945	1.6	.008
55	0.547997	1.501705	1.6	.008
60				

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
20				
1	0.075086	15.421147	124.4	1.992
2	0.163107	4.651207	22.9	1.398
3	0.228449	3.197499	11.5	1.243
4	0.276950	2.655742	7.8	1.173
5	0.314130	2.373149	6.1	1.133
6	0.343527	2.198783	5.0	1.107
7	0.367377	2.079871	4.4	1.089
8	0.387138	1.993233	3.9	1.076
9	0.403797	1.927089	3.6	1.066
10	0.418046	1.874807	3.3	1.058
12	0.441176	1.797154	2.9	1.047
14	0.459177	1.742023	2.7	1.039
16	0.473611	1.700713	2.5	1.033
18	0.485457	1.668531	2.3	1.029
20	0.495362	1.642710	2.2	1.026
25	0.514260	1.595942	2.0	1.020
30	0.527773	1.564457	1.9	1.016
35	0.537792	1.541762	1.8	1.012
40	0.545633	1.524604	1.7	1.012
45	0.551909	1.511164	1.7	1.010
50	0.557049	1.500346	1.6	1.009
55	0.561336	1.491448	1.6	1.008
60	0.564968	1.483997	1.5	1.008

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
25				
1	0.079313	15.496990	127.7	1.995
2	0.170685	4.655899	23.4	1.402
3	0.238593	3.192121	11.8	1.246
4	0.289163	2.645822	8.0	1.176
5	0.328072	2.360330	6.2	1.135
6	0.358947	2.193324	5.2	1.109
7	0.384083	2.063304	4.5	1.091
8	0.404979	1.975146	4.0	1.078
9	0.422650	1.907784	3.6	1.068
10	0.437809	1.854438	3.4	1.060
12	0.462512	1.775000	3.0	1.049
14	0.481833	1.718410	2.7	1.041
16	0.497396	1.673879	2.5	1.035
18	0.510217	1.642653	2.4	1.030
20	0.520976	1.615926	2.2	1.027
25	0.541610	1.567337	2.0	1.020
30	0.556393	1.534469	1.9	1.017
35	0.567532	1.510685	1.8	1.014
40	0.576233	1.492644	1.7	1.012
45	0.583224	1.478473	1.7	1.010
50	0.588967	1.467039	1.6	1.009
55	0.593771	1.457615	1.6	1.008
60	0.597849	1.449709	1.5	1.008

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
30	1 0.082213	1 5.547613	1 30.1	1 .997
2	0.175871	4.658903	23.8	1.404
3	0.245544	3.188340	12.00	1.248
4	0.297552	2.638948	8.22	1.178
5	0.337672	2.351462	6.23	1.137
6	0.369591	2.173465	5.22	1.111
7	0.395642	2.051646	4.55	1.093
8	0.417351	1.962581	4.1	1.080
9	0.435752	1.894350	3.7	1.070
10	0.451572	1.840238	3.4	1.062
12	0.477429	1.759500	3.0	1.050
14	0.497731	1.701837	2.7	1.042
16	0.514136	1.658397	2.5	1.036
18	0.527694	1.624385	2.4	1.031
20	0.539104	1.596972	2.3	1.027
25	0.561078	1.546984	2.1	1.021
30	0.576907	1.513037	1.9	1.017
35	0.588883	1.488391	1.8	1.014
40	0.598274	1.469643	1.7	1.012
45	0.605843	1.454883	1.7	1.011
50	0.612078	1.442948	1.6	1.009
55	0.617306	1.433093	1.6	1.008
60	0.621753	1.424813	1.5	1.008

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
35	1 0.084325	1 5.583805	1 35.1	1 .998
2	0.179641	4.660990	24.1	1.406
3	0.250604	3.185545	12.2	1.250
4	0.303669	2.633911	8.3	1.179
5	0.344683	2.344967	6.4	1.139
6	0.377379	2.165872	5.3	1.113
7	0.404115	2.043164	4.6	1.094
8	0.426436	1.953347	4.1	1.081
9	0.445389	1.884462	3.7	1.071
10	0.461711	1.829773	3.5	1.063
12	0.488452	1.748046	3.1	1.051
14	0.509508	1.689559	2.8	1.043
16	0.526570	1.645413	2.6	1.036
18	0.540706	1.610790	2.4	1.032
20	0.552629	1.582836	2.3	1.028
25	0.573670	1.531737	2.1	1.022
30	0.592342	1.496921	1.9	1.017
35	0.605002	1.471574	1.8	1.015
40	0.614961	1.452246	1.7	1.012
45	0.623009	1.436957	1.7	1.011
50	0.629655	1.424645	1.6	1.010
55	0.635239	1.414429	1.6	1.009
60	0.639999	1.405833	1.6	1.008

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
40				
1	0.085930	15.610968	133.2	1.999
2	0.182506	4.662524	24.4	1.407
3	0.254452	3.183398	12.3	1.251
4	0.308326	2.630063	8.3	1.180
5	0.350029	2.340006	6.5	1.140
6	0.383325	2.160069	5.4	1.114
7	0.410593	2.036676	4.6	1.095
8	0.433391	1.946275	4.3	1.082
9	0.452777	1.876882	4.2	1.082
10	0.469493	1.821740	3.8	1.064
12	0.496932	1.739236	3.5	1.052
14	0.518589	1.680095	3.1	1.043
16	0.533617	1.635386	2.8	1.037
18	0.550778	1.600271	2.6	1.032
20	0.563116	1.571881	2.4	1.029
25	0.587029	1.519876	2.3	1.022
30	0.604396	1.484345	2.1	1.018
35	0.617625	1.458414	2.0	1.015
40	0.628061	1.438601	1.8	1.013
45	0.636515	1.422940	1.7	1.011
50	0.643510	1.410233	1.6	1.010
55	0.649393	1.399708	1.6	1.009
60	0.654426	1.390841	1.6	1.008

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
45				
1	0.087192	15.622106	134.3	2.000
2	0.184756	4.665693	24.6	1.408
3	0.257477	3.181697	12.4	1.252
4	0.311989	2.627029	8.4	1.181
5	0.354240	2.336095	6.5	1.142
6	0.388014	2.155451	5.4	1.115
7	0.415707	2.031552	4.7	1.096
8	0.438887	1.940686	4.2	1.083
9	0.458620	1.870886	4.2	1.073
10	0.475655	1.815380	3.8	1.064
12	0.503659	1.732247	3.5	1.052
14	0.525807	1.672575	3.1	1.044
16	0.543324	1.627407	2.8	1.038
18	0.558808	1.591887	2.6	1.033
20	0.571490	1.563138	2.4	1.029
25	0.596129	1.510380	2.3	1.022
30	0.614079	1.474248	2.1	1.018
35	0.627791	1.447824	2.0	1.015
40	0.638633	1.427597	1.8	1.013
45	0.647435	1.411583	1.7	1.011
50	0.654731	1.398571	1.6	1.010
55	0.660883	1.387779	1.6	1.009
60	0.666143	1.378677	1.6	1.008

CONFIDENCE LEVEL = .8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
50	0.088210	15.649025	135.2	2.001
1	0.186570	4.664627	24.7	1.408
2	0.259916	3.180318	12.5	1.253
3	0.314947	2.624575	8.5	1.132
4	0.357642	2.332932	6.5	1.141
5	0.391805	2.151787	5.4	1.115
6	0.419846	2.027404	4.7	1.097
7	0.443340	1.936159	4.2	1.084
8	0.463359	1.866024	3.8	1.073
9	0.480656	1.810220	3.6	1.065
10	0.509127	1.726568	3.1	1.053
11	0.533168	1.666455	2.8	1.044
12	0.550059	1.620905	2.6	1.038
13	0.565363	1.585046	2.5	1.033
14	0.578333	1.553595	2.3	1.030
15	0.603587	1.503601	2.1	1.023
20	0.622035	1.465958	2.0	1.016
30	0.636161	1.439111	1.8	1.015
40	0.647354	1.418527	1.8	1.013
45	0.656457	1.402206	1.7	1.011
50	0.664016	1.38928	1.6	1.010
55	0.670399	1.377903	1.6	1.009
60	0.675864	1.368593	1.6	1.008

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
55	0.089048	15.662873	135.9	2.001
1	0.188063	4.665379	24.8	1.409
2	0.261925	3.179177	12.5	1.254
3	0.317385	2.622550	8.5	1.183
4	0.360448	2.330321	6.6	1.142
5	0.394933	2.148729	5.5	1.116
6	0.423265	2.023978	4.7	1.098
7	0.447021	1.932416	4.2	1.084
8	0.467278	1.862003	3.8	1.074
9	0.484795	1.805949	3.6	1.066
10	0.513660	1.721862	3.2	1.053
11	0.536556	1.661378	2.9	1.045
12	0.555239	1.615503	2.6	1.039
13	0.570817	1.579359	2.5	1.034
14	0.584034	1.550049	2.4	1.030
15	0.609812	1.496110	2.1	1.023
20	0.628691	1.459027	2.0	1.019
30	0.643176	1.431813	1.9	1.016
40	0.654675	1.410917	1.8	1.013
45	0.664043	1.394327	1.7	1.012
50	0.671834	1.380816	1.7	1.010
55	0.678420	1.369583	1.6	1.009
60	0.684067	1.360091	1.6	1.008

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.089751	15.674417	136.6	2.002
1	0.189314	4.666001	24.9	1.410
2	0.263609	3.178217	12.6	1.254
3	0.319429	2.620850	8.5	1.183
4	0.362802	2.328131	6.6	1.143
5	0.397563	2.146162	5.5	1.116
6	0.426137	2.021100	4.5	1.098
7	0.450114	1.929270	4.0	1.085
8	0.470575	1.858621	3.9	1.074
9	0.488279	1.802355	3.8	1.066
10	0.504067	1.757898	3.7	1.054
11	0.517479	1.717097	3.6	1.045
12	0.529613	1.681094	3.5	1.039
13	0.540613	1.649553	3.4	1.034
14	0.550900	1.622222	3.3	1.030
15	0.560912	1.599611	3.2	1.023
16	0.570543	1.58143	3.1	1.019
17	0.579851	1.567607	3.0	1.016
18	0.588855	1.557637	2.9	1.014
19	0.597551	1.550410	2.8	1.012
20	0.605927	1.545291	2.7	1.010
25	0.615090	1.536247	2.6	1.009
30	0.624343	1.52818	2.5	1.008
35	0.633444		2.4	
40	0.642444		2.3	
45	0.651355		2.2	
50	0.660192		2.1	
55	0.668951		2.0	
60	0.677610		1.9	
	0.686175		1.8	
	0.694688		1.7	
			1.6	

CONFIDENCE LEVEL=.8  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2 / A-1	REDUCTION
1	0.0	39.863458	*	2.000
2	0.0	38.526316	*	1.449
3	0.0	35.538319	*	1.323
4	0.0	4.544771	*	1.271
5	0.0	4.060420	*	1.243
6	0.0	3.775950	*	1.226
7	0.0	3.589428	*	1.214
8	0.0	3.457919	*	1.205
9	0.0	3.360303	*	1.199
10	0.0	3.285015	*	1.194
12	0.0	3.176549	*	1.187
14	0.0	3.102213	*	1.181
16	0.0	3.048110	*	1.178
18	0.0	3.006977	*	1.175
20	0.0	2.974653	*	1.173
25	0.0	2.917745	*	1.169
30	0.0	2.830695	*	1.166
35	0.0	2.834655	*	1.164
40	0.0	2.835354	*	1.163
45	0.0	2.820476	*	1.162
50	0.0	2.808658	*	1.161
55	C.C	2.799043	*	1.160
60	0.0	2.791068	*	1.160

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2 / A-1	REDUCTION
2	0.000049	49.549454	2022.6	1.976
3	0.000830	9.088744	112.7	1.383
4	0.002406	5.576115	40.6	1.238
5	0.003931	4.454266	24.1	1.176
6	0.005403	3.920234	17.6	1.142
7	0.006605	3.611532	14.2	1.122
8	0.007620	3.411416	12.2	1.108
9	0.008478	3.271525	10.9	1.098
10	0.009209	3.168378	9.9	1.090
12	0.009836	3.089248	9.2	1.084
14	0.010835	2.975928	8.3	1.076
16	0.011642	2.898753	7.6	1.070
18	0.012268	2.842343	7.2	1.066
20	0.012776	2.800487	6.9	1.063
25	0.013197	2.767297	6.6	1.060
30	0.013987	2.709068	6.2	1.056
35	0.014538	2.671301	5.9	1.053
40	0.014944	2.644828	5.7	1.051
45	0.015255	2.625243	5.6	1.050
50	0.015501	2.610168	5.5	1.049
55	0.015701	2.598207	5.4	1.048
55	0.015866	2.588485	5.4	1.047
60	0.016005	2.580427	5.3	1.046

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.002065	53.815880	485.9	1.971
1	0.011094	99.375805	46.7	1.371
2	0.020630	55.613856	15.6	1.221
3	0.028510	44.20880	12.4	1.156
4	0.034765	33.854302	9.3	1.122
5	0.039747	33.526983	7.6	1.100
6	0.043770	33.314777	6.6	1.086
7	0.047072	33.166376	5.9	1.075
8	0.049823	33.056896	5.4	1.068
9	0.052146	32.972861	5.0	1.062
10	0.055846	32.852420	4.5	1.053
11	0.059658	32.770311	4.2	1.048
12	0.060864	32.710772	3.9	1.043
13	0.062639	32.665631	3.7	1.040
14	0.064098	32.630235	3.6	1.038
15	0.066814	32.568077	3.3	1.034
16	0.068690	32.527718	3.2	1.031
17	0.070064	32.499404	3.1	1.029
18	0.071112	32.478443	3.0	1.028
19	0.071939	32.462302	3.0	1.027
20	0.072608	32.449438	2.9	1.026
25	0.073159	32.439070	2.9	1.025
30	0.073622	32.430433	2.8	1.024
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CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.007034	56.153169	351.8	1.974
1	0.026316	99.500000	39.0	1.372
2	0.043800	55.594752	16.8	1.220
3	0.057526	44.359658	10.7	1.154
4	0.063183	33.773321	8.0	1.117
5	0.068580	33.434458	6.5	1.095
6	0.076580	33.214618	5.6	1.080
7	0.083321	33.060759	5.0	1.069
8	0.088835	33.947165	4.6	1.061
9	0.093418	32.859906	4.3	1.055
10	0.097284	32.734718	4.1	1.047
11	0.103437	32.649267	3.8	1.041
12	0.108109	32.587240	3.5	1.036
13	0.111774	32.540171	3.3	1.033
14	0.114724	32.503234	3.1	1.031
15	0.117149	32.438302	3.0	1.026
16	0.121664	32.356089	2.8	1.024
17	0.124785	32.366447	2.6	1.022
18	0.127070	32.344489	2.5	1.020
19	0.129816	32.327568	2.4	1.019
20	0.130193	32.314131	2.4	1.018
25	0.131306	32.303201	2.3	1.018
30	0.132225	32.294136	2.3	1.017
40	0.132997			
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CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.012874	57.601703	319.3	1.577
1	0.040827	9.560859	37.3	1.376
2	0.064679	5.565977	16.2	1.222
3	0.083093	4.304244	10.3	1.154
4	0.097320	3.705178	7.7	1.117
5	0.108517	3.358730	6.2	1.094
6	0.117512	3.133781	5.4	1.079
7	0.124877	2.976207	4.8	1.068
8	0.131009	2.859771	4.3	1.059
9	0.136187	2.770256	4.0	1.053
10	0.144445	2.641693	3.5	1.044
11	0.150731	2.553824	3.2	1.038
12	0.155367	2.483969	3.0	1.033
13	0.159655	2.441468	2.8	1.030
14	0.162933	2.403375	2.7	1.027
15	0.166905	2.363337	2.5	1.023
16	0.173293	2.292697	2.4	1.020
17	0.176403	2.262023	2.3	1.018
18	0.178782	2.239282	2.2	1.017
19	0.180660	2.221748	2.2	1.016
20	0.182180	2.207816	2.1	1.015
25	0.183436	2.156480	2.1	1.014
30	0.184491	2.187075	2.1	1.014

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.018430	58.582101	310.8	1.980
1	0.053300	9.594783	37.3	1.380
2	0.082189	5.538906	16.2	1.235
3	0.104359	4.258822	10.3	1.156
4	0.121484	3.650821	7.6	1.115
5	0.134984	3.298941	6.2	1.095
6	0.145854	3.070266	5.3	1.079
7	0.154774	2.909940	4.7	1.068
8	0.162215	2.791367	4.2	1.059
9	0.168513	2.700134	3.9	1.052
10	0.178553	2.568965	3.4	1.043
11	0.186272	2.479155	3.1	1.037
12	0.192331	2.413887	2.9	1.032
13	0.197227	2.364232	2.8	1.029
14	0.201265	2.325202	2.6	1.026
15	0.208818	2.256435	2.4	1.021
16	0.214066	2.211610	2.3	1.018
17	0.217924	2.180070	2.2	1.016
18	0.220880	2.156669	2.1	1.015
19	0.223521	2.138614	2.1	1.014
20	0.225109	2.124261	2.0	1.013
25	0.226674	2.112577	2.0	1.012
30	0.227990	2.102879	1.9	1.012

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.023363	59.288550	310.4	1.983
1	0.063762	9.615634	37.5	1.383
2	0.096696	5.515585	16.3	1.228
3	0.121920	4.222048	10.3	1.159
4	0.141434	3.607378	7.6	1.12C
5	0.156854	3.251371	6.2	1.096
6	0.169302	3.019816	5.3	1.08C
7	0.179542	2.857332	4.6	1.068
8	0.188105	2.737063	4.2	1.059
9	0.195367	2.644453	3.5	1.052
10	0.207011	2.511164	3.4	1.043
11	0.215929	2.419826	3.1	1.036
12	0.222976	2.353304	2.9	1.031
13	0.228683	2.302680	2.7	1.028
14	0.233399	2.262853	2.6	1.025
15	0.237224	2.219260	2.5	1.02C
16	0.240405	2.146752	2.2	1.017
17	0.242946	2.114456	2.1	1.015
18	0.245643	2.090474	2.0	1.014
19	0.248138	2.071959	2.0	1.013
20	0.250142	2.057232	1.9	1.012
25	0.253276	2.045238	1.9	1.011
30	0.256430	2.035281	1.9	1.011
40	0.259138			
50	0.261425			
55	0.263276			
60	0.264833			

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.027644	59.821505	313.2	1.585
1	0.072529	9.629424	38.1	1.386
2	0.108769	5.495895	16.6	1.230
3	0.136521	4.192041	10.4	1.161
4	0.158032	3.572174	7.7	1.122
5	0.175076	3.212899	6.2	1.097
6	0.188868	3.079032	5.3	1.081
7	0.200243	2.814792	4.7	1.069
8	0.209775	2.693128	4.2	1.060
9	0.217876	2.599375	3.9	1.053
10	0.223089	2.464306	3.4	1.043
11	0.224090	2.371636	3.1	1.036
12	0.224883	2.304072	2.8	1.031
13	0.225324	2.252607	2.7	1.027
14	0.226058	2.212087	2.5	1.025
15	0.227060	2.140536	2.3	1.020
16	0.227759	2.093770	2.2	1.017
17	0.228276	2.060797	2.1	1.015
18	0.228673	2.036293	2.0	1.013
19	0.228983	2.017363	1.9	1.012
20	0.229244	2.002298	1.9	1.011
25	0.229455	1.990023	1.8	1.010
30	0.229634	1.979828	1.8	1.010
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CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.031342	60.237814	317.3	1.987
1	0.079923	9.639070	38.7	1.388
2	0.118913	5.479274	46.8	1.232
3	0.148788	4.167240	50.5	1.162
4	0.171995	3.543196	7.8	1.023
5	0.190426	3.181255	6.3	1.099
6	0.205379	2.945478	5.3	1.082
7	0.217773	2.779773	4.7	1.070
8	0.222811	2.656934	4.2	1.060
10	0.236953	2.562209	3.9	1.053
12	0.251194	2.425614	3.4	1.043
14	0.262168	2.331788	3.1	1.036
16	0.270882	2.263312	2.8	1.031
18	0.277969	2.211106	2.7	1.027
20	0.283846	2.169972	2.5	1.024
25	0.294922	2.097257	2.3	1.019
30	0.302685	2.049668	2.1	1.016
35	0.308430	2.016081	2.0	1.014
40	0.312852	1.991101	2.0	1.013
45	0.316362	1.971791	1.9	1.012
50	0.319216	1.956415	1.8	1.011
55	0.321532	1.943381	1.8	1.010
60	0.323575	1.933467	1.8	1.009

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.034541	60.571979	321.8	1.988
1	0.086217	9.646122	39.3	1.391
2	0.127526	5.465156	47.1	1.234
3	0.159209	4.146469	50.7	1.164
4	0.183872	3.518983	7.9	1.025
5	0.203504	3.154820	6.3	1.000
6	0.219466	2.917433	5.4	1.083
7	0.232687	2.750481	4.7	1.070
8	0.243811	2.626634	4.2	1.061
10	0.253299	2.531070	3.9	1.054
12	0.268625	2.393145	3.4	1.043
14	0.280466	2.298302	3.1	1.036
16	0.289890	2.229017	2.8	1.031
18	0.297570	2.176151	2.6	1.027
20	0.303949	2.134465	2.5	1.024
25	0.315999	2.060698	2.3	1.019
30	0.324468	2.012360	2.1	1.016
35	0.330747	1.978211	2.0	1.014
40	0.335590	1.952792	1.9	1.012
45	0.339438	1.933131	1.8	1.011
50	0.342569	1.917467	1.8	1.010
55	0.344516	1.904692	1.8	1.010
60	0.347358	1.894074	1.8	1.009

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2 / A-1	REDUCTION
12	0.039756	0.075103	330.7	1.990
1	0.096312	0.655620	40.4	1.394
2	0.141317	0.442621	17.5	1.238
3	0.175912	0.313745	10.9	1.167
4	0.202944	0.480907	8.0	1.127
5	0.224549	0.313238	6.5	1.102
6	0.242193	0.873276	5.5	1.085
7	0.256842	0.704306	4.8	1.072
8	0.269219	0.578812	4.3	1.063
9	0.279808	0.481364	3.9	1.055
10	0.296980	0.341722	3.4	1.044
11	0.310312	0.245163	3.1	1.037
12	0.320967	0.174502	2.8	1.032
13	0.329680	0.120500	2.6	1.028
14	0.336940	0.077860	2.5	1.025
15	0.350711	0.002258	2.3	1.019
16	0.360439	0.952597	2.1	1.016
17	0.367679	0.917447	2.0	1.014
18	0.373280	0.891244	1.9	1.012
19	0.377741	0.870951	1.8	1.011
20	0.381380	0.854766	1.8	1.010
25	0.384404	0.841556	1.8	1.009
30	0.386957	0.830567	1.7	1.008

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2 / A-1	REDUCTION
14	0.043798	0.435883	338.8	1.992
1	0.104021	0.661639	41.4	1.396
2	0.151836	0.425534	17.9	1.240
3	0.188674	0.089210	11.2	1.169
4	0.217551	0.452352	8.2	1.129
5	0.240708	0.082070	6.6	1.104
6	0.259671	0.840132	5.6	1.086
7	0.275482	0.669592	4.9	1.074
8	0.288869	0.542802	4.4	1.064
9	0.300352	0.444756	4.0	1.056
10	0.319039	0.302932	3.5	1.045
11	0.333608	0.204874	3.1	1.038
12	0.345292	0.133077	2.9	1.032
13	0.354877	0.079131	2.7	1.028
14	0.362884	0.034690	2.5	1.025
15	0.378131	0.957530	2.3	1.019
16	0.388951	0.906733	2.1	1.016
17	0.397033	0.870714	2.0	1.013
18	0.403302	0.843825	1.9	1.012
19	0.408307	0.822975	1.8	1.010
20	0.412396	0.806331	1.8	1.010
25	0.415801	0.792733	1.7	1.009
30	0.418679	0.781414	1.7	1.008

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.047006	0.707260	3.45	1.093
1	0.110034	0.665752	4.2	1.038
2	0.160107	0.412185	4.8	1.024
3	0.198724	0.070170	5.1	1.017
4	0.229078	0.430269	5.3	1.013
5	0.253488	0.057865	5.6	1.005
6	0.273531	0.814357	5.7	1.008
7	0.290286	0.642558	5.9	1.005
8	0.304506	0.514719	4.4	1.005
9	0.316730	0.415777	4.0	1.005
10	0.336683	0.272384	3.5	1.046
12	0.352293	0.173260	3.1	1.038
14	0.364852	0.100506	2.9	1.033
16	0.375183	0.044759	2.7	1.028
18	0.383834	0.000634	2.5	1.025
20	0.400363	0.922130	2.3	1.020
25	0.412141	0.870341	2.1	1.016
30	0.420966	0.833559	2.0	1.013
35	0.427829	0.806062	1.9	1.012
40	0.433321	0.784716	1.8	1.010
45	0.437816	0.767660	1.8	1.009
50	0.441553	0.753714	1.7	1.009
55	0.444736	0.742057	1.7	1.008
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CONFIDENCE LEVEL = .5  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.049608	0.918811	3.5	1.095
1	0.114970	0.668722	4.3	1.040
2	0.166774	0.401488	4.8	1.024
3	0.206836	0.054980	5.1	1.017
4	0.238399	0.412518	5.3	1.013
5	0.263342	0.038534	5.6	1.007
6	0.284781	0.793747	5.7	1.008
7	0.302322	0.620915	5.9	1.005
8	0.317240	0.492208	4.4	1.005
9	0.330089	0.392518	4.0	1.005
10	0.351115	0.247891	3.5	1.047
12	0.367616	0.147779	3.1	1.039
14	0.380928	0.074208	2.9	1.033
16	0.391904	0.017770	2.7	1.025
18	0.401115	0.973053	2.5	1.026
20	0.418768	0.893375	2.3	1.020
25	0.431394	0.840711	2.1	1.016
30	0.440883	0.803249	2.0	1.014
35	0.448280	0.775208	1.9	1.012
40	0.454210	0.753417	1.8	1.010
45	0.459072	0.735988	1.8	1.009
50	0.463131	0.721727	1.7	1.008
55	0.466572	0.709838	1.7	1.008
60				

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
20	0.051758	0.088363	357.3	1.995
1	0.118988	0.670957	43.6	1.401
2	0.172258	0.392735	18.8	1.245
3	0.213518	0.042588	11.7	1.174
4	0.246088	0.398214	3.6	1.134
5	0.272396	0.022745	6.9	1.109
6	0.294090	0.776896	5.8	1.090
7	0.312298	0.603157	5.1	1.077
8	0.327809	0.473759	4.5	1.067
9	0.341192	0.373437	4.1	1.059
10	0.363139	0.227758	3.6	1.048
11	0.380411	0.126795	3.2	1.040
12	0.394378	0.052517	2.5	1.034
13	0.405918	0.995477	2.7	1.029
14	0.415622	0.950242	2.6	1.026
15	0.434270	0.869528	2.3	1.020
16	0.447352	0.816085	2.1	1.016
17	0.457737	0.778014	2.0	1.014
18	0.465616	0.749482	1.9	1.012
19	0.471944	0.727287	1.8	1.010
20	0.477141	0.709520	1.8	1.009
21	0.481485	0.694970	1.7	1.008
22	0.485172	0.682834	1.7	1.008

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
25	0.055782	0.394271	367.9	1.997
1	0.126469	0.674679	44.8	1.404
2	0.182474	0.376546	19.3	1.248
3	0.225989	0.019743	12.0	1.177
4	0.260471	0.371645	8.8	1.136
5	0.288433	0.995582	7.0	1.110
6	0.311579	0.745721	5.5	1.092
7	0.331077	0.570369	5.2	1.079
8	0.347746	0.439523	4.6	1.069
9	0.362175	0.337974	4.2	1.061
10	0.385942	0.190234	3.6	1.049
11	0.404750	0.087587	3.3	1.041
12	0.420035	0.011392	3.0	1.035
13	0.432720	0.993364	2.8	1.030
14	0.443429	0.907350	2.6	1.027
15	0.464129	0.824507	2.3	1.021
16	0.479092	0.769442	2.1	1.017
17	0.490434	0.730087	2.0	1.014
18	0.499339	0.700514	1.9	1.012
19	0.506520	0.677455	1.8	1.010
20	0.512438	0.658958	1.8	1.009
21	0.517400	0.643785	1.7	1.008
22	0.521623	0.631110	1.7	1.008

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
30				
1	0.058576	62.598734	375.7	.998
2	0.131637	9.676953	45.7	.406
3	0.189539	5.365449	59.7	.250
4	0.234631	4.004127	72.3	.178
5	0.270462	3.353467	89.0	.138
6	0.299601	2.973596	9.2	.112
7	0.323790	2.724317	7.2	.094
8	0.344221	2.547787	6.0	.080
9	0.361733	2.415929	5.3	.070
10	0.376928	2.313490	4.7	.062
11	0.402042	2.164239	4.3	.050
12	0.422000	2.060340	3.7	.042
13	0.438280	1.983581	3.3	.036
14	0.451839	1.924408	3.0	.031
15	0.463321	1.877309	2.8	.028
16	0.485619	1.792914	2.6	.021
17	0.501833	1.736467	2.3	.017
18	0.514183	1.696087	2.1	.014
19	0.523918	1.665670	2.0	.012
20	0.533179	1.641906	1.9	.011
21	0.538310	1.622309	1.8	.010
22	0.543785	1.607120	1.7	.009
23	0.548454	1.593994	1.7	.008

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
35				
1	0.060626	62.745044	381.7	.999
2	0.135419	9.678481	46.4	.407
3	0.194712	5.357375	60.0	.251
4	0.240969	3.992783	72.4	.180
5	0.277804	3.402552	89.1	.135
6	0.307824	2.959048	9.3	.113
7	0.332797	2.708714	7.3	.095
8	0.353934	2.531303	6.1	.080
9	0.372086	2.398681	5.3	.070
10	0.387867	2.295567	4.8	.062
11	0.414019	2.145139	4.4	.050
12	0.434869	2.040392	3.8	.042
13	0.451930	1.962703	3.3	.036
14	0.466177	1.902805	3.1	.031
15	0.478272	1.855067	2.8	.028
16	0.501835	1.769249	2.7	.021
17	0.519082	1.711863	2.4	.017
18	0.532261	1.670641	2.0	.014
19	0.542683	1.639526	1.9	.012
20	0.551147	1.615173	1.8	.011
21	0.558158	1.595572	1.8	.010
22	0.564067	1.579446	1.7	.009
23	0.569116	1.565937	1.7	.008

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2 / A-1	REDUCTION
40	0.062194	0.854924	386.4	1.599
41	0.138304	0.679575	46.9	1.408
42	0.198663	0.535124	20.2	1.252
43	0.245816	0.498417	12.6	1.181
44	0.283426	0.330214	9.2	1.140
45	0.314129	0.294798	7.4	1.114
46	0.339714	0.269683	6.2	1.096
47	0.361404	0.251873	5.4	1.082
48	0.380060	0.238552	4.8	1.072
49	0.396304	0.228187	4.4	1.064
50	0.423279	0.213055	3.8	1.052
51	0.444843	0.202491	3.4	1.043
52	0.462530	0.194662	3.1	1.037
53	0.477335	0.188617	2.9	1.032
54	0.489930	0.183792	2.7	1.025
55	0.514562	0.175101	2.4	1.022
56	0.532263	0.169277	2.2	1.015
57	0.546505	0.165084	2.0	1.008
58	0.557510	0.161914	1.9	1.013
59	0.566467	0.159428	1.8	1.011
60	0.573906	0.157425	1.8	1.010
61	0.580187	0.155775	1.7	1.009
62	0.585564	0.154391	1.7	1.008

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2 / A-1	REDUCTION
45	0.063431	0.940475	390.2	2.000
46	0.140578	0.680396	47.4	1.409
47	0.201778	0.534642	20.4	1.253
48	0.249641	0.497741	12.7	1.182
49	0.287868	0.322330	9.3	1.141
50	0.319118	0.293291	7.4	1.115
51	0.345193	0.268749	6.3	1.097
52	0.367328	0.250884	5.5	1.083
53	0.386391	0.237514	4.9	1.073
54	0.403009	0.227107	4.4	1.065
55	0.430653	0.211901	3.8	1.053
56	0.452800	0.201274	3.4	1.044
57	0.471003	0.193394	3.1	1.038
58	0.486258	0.187298	2.9	1.033
59	0.499278	0.182429	2.7	1.029
60	0.524789	0.173648	2.4	1.023
61	0.543572	0.167751	2.2	1.018
62	0.558032	0.163498	2.0	1.015
63	0.569534	0.160278	1.9	1.013
64	0.578917	0.157749	1.8	1.011
65	0.586725	0.155709	1.8	1.010
66	0.593331	0.154026	1.7	1.009
67	0.598994	0.152614	1.7	1.008

CONFIDENCE LEVEL = .9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
50				
1	0.064433	0.008972	393.3	2.000
2	0.142416	0.681035	47.7	1.409
3	0.204297	0.42537	20.6	1.253
4	0.252737	0.971968	12.8	1.182
5	0.291467	0.315975	9.4	1.142
6	0.323163	0.932277	7.5	1.116
7	0.349640	0.679950	6.3	1.097
8	0.372140	0.500855	5.5	1.084
9	0.391538	0.366763	4.9	1.073
10	0.408465	0.262339	4.5	1.065
11	0.423664	0.109664	4.2	1.053
12	0.435929	0.002374	3.9	1.045
13	0.447793	0.925617	3.7	1.038
14	0.449358	0.862247	3.6	1.033
15	0.450694	0.813196	3.5	1.030
16	0.451332	0.724621	3.4	1.023
17	0.451559	0.665029	3.3	1.018
18	0.451675	0.621989	3.2	1.015
19	0.451749	0.589347	3.1	1.013
20	0.451792	0.563689	3.0	1.011
25	0.451877	0.542959	2.9	1.009
30	0.451936	0.525844	2.8	1.008
35	0.451975	0.513464	2.7	1.008

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
55				
1	0.065525	0.065053	393.3	2.001
2	0.143393	0.681546	48.0	1.410
3	0.205337	0.429340	20.7	1.254
4	0.255294	0.967487	12.9	1.183
5	0.294441	0.310743	9.4	1.143
6	0.326509	0.926500	7.5	1.116
7	0.353321	0.673734	6.3	1.098
8	0.376127	0.494264	5.5	1.084
9	0.395806	0.359844	5.0	1.074
10	0.412993	0.255125	4.5	1.066
11	0.424659	0.101934	4.2	1.054
12	0.431855	0.994703	3.9	1.045
13	0.437006	0.915058	3.7	1.039
14	0.441937	0.833345	3.6	1.034
15	0.446470	0.803983	3.5	1.030
16	0.450635	0.714750	3.4	1.023
17	0.454022	0.654621	3.3	1.018
18	0.456015	0.611133	3.2	1.015
19	0.457556	0.578110	3.1	1.013
20	0.458787	0.552122	3.0	1.011
25	0.459795	0.533114	2.9	1.009
30	0.460637	0.513736	2.8	1.008
35	0.461351	0.499129	2.7	1.008
40	0.461965			

CONFIDENCE LEVEL=.9  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.065954	63.111814	398.2	2.001
1	0.145205	9.681963	48.3	1.410
2	0.208121	5.336663	20.8	1.254
3	0.257442	3.963735	13.0	1.183
4	0.296941	3.306362	9.5	1.143
5	0.329323	2.921659	7.6	1.117
6	0.356418	2.668522	6.4	1.098
7	0.379434	2.483736	5.6	1.085
8	0.399402	2.354036	5.0	1.074
9	0.416810	2.249066	4.5	1.066
10	0.445876	2.095437	3.9	1.054
11	0.469274	1.987823	3.5	1.045
12	0.488590	1.907851	3.2	1.039
13	0.504835	1.845840	2.9	1.034
14	0.518772	1.795211	2.8	1.030
15	0.546226	1.706405	2.4	1.023
16	0.566602	1.645808	2.2	1.019
17	0.582398	1.601927	2.1	1.016
18	0.595041	1.563567	2.0	1.014
19	0.605410	1.542287	1.9	1.012
20	0.614082	1.521013	1.8	1.010
25	0.621449	1.503418	1.8	1.009
30	0.627792	1.488609	1.7	1.008

CONFIDENCE LEVEL=.5  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.00	161.447639	*	2.0000
2	0.00	18.512821	*	1.434
3	0.00	10.127964	*	1.302
4	0.00	7.708647	*	1.247
5	0.00	6.607891	*	1.218
6	0.00	5.987378	*	1.200
7	0.00	5.591448	*	1.188
8	0.00	5.317655	*	1.175
9	0.00	5.117355	*	1.173
10	0.00	4.964603	*	1.168
11	0.00	4.747225	*	1.160
12	0.00	4.600110	*	1.155
13	0.00	4.493958	*	1.151
14	0.00	4.413873	*	1.144
15	0.00	4.351244	*	1.146
20	0.00	4.241099	*	1.142
30	0.00	4.170877	*	1.140
40	0.00	4.121338	*	1.138
50	0.00	4.084746	*	1.137
60	0.00	4.056612	*	1.136
70	0.00	4.034310	*	1.135
80	0.00	4.016195	*	1.134
90	0.00	4.001191	*	1.134

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.000003	199.524909	16058.6	1.991
2	0.0000118	19.0472299	422.8	1.393
3	0.0000431	9.616022	115.1	1.249
4	0.0000836	7.019978	58.8	1.184
5	0.0001249	5.870332	39.1	1.150
6	0.0001633	5.233764	29.7	1.128
7	0.0001977	4.832767	24.3	1.113
8	0.0002281	4.558135	21.0	1.103
9	0.0002549	4.358731	18.6	1.095
10	0.0002735	4.207530	17.0	1.089
11	0.0003130	3.993943	14.8	1.080
12	0.0003495	3.850396	13.3	1.074
13	0.0003750	3.747407	12.4	1.070
14	0.0003961	3.669959	11.7	1.067
15	0.0004138	3.609617	11.1	1.064
20	0.0004476	3.504505	10.2	1.059
30	0.0004715	3.436848	9.6	1.056
40	0.0004893	3.389668	9.2	1.054
50	0.0005031	3.354895	9.0	1.053
60	0.0005141	3.328207	8.8	1.052
70	0.0005230	3.307078	8.6	1.051
80	0.0005304	3.289936	8.5	1.050
90	0.0005367	3.275750	8.3	1.049

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3				
1	0.000515	215.929671	1945.0	1.987
2	0.003976	19.348611	108.5	1.386
3	0.008473	9.463172	37.3	1.231
4	0.012599	6.782139	21.2	1.164
5	0.016082	5.603648	14.9	1.128
6	0.018967	4.953858	11.7	1.106
7	0.021363	4.545591	9.8	1.090
8	0.023368	4.266449	8.6	1.080
9	0.025064	4.064000	7.7	1.072
10	0.026514	3.910660	7.1	1.065
12	0.028853	3.694088	6.2	1.056
14	0.030654	3.548656	5.6	1.050
16	0.032080	3.444349	5.2	1.046
18	0.033235	3.365923	4.9	1.043
20	0.034191	3.304825	4.7	1.040
25	0.035980	3.198398	4.3	1.036
30	0.037226	3.129893	4.1	1.033
35	0.038142	3.082116	3.9	1.031
40	0.038844	3.046901	3.8	1.029
45	0.039393	3.019871	3.7	1.028
50	0.039848	2.998469	3.6	1.027
55	0.040219	2.981104	3.5	1.027
60	0.040532	2.966733	3.5	1.026

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
4				
1	0.002726	224.977836	1440.9	1.987
2	0.012821	19.500000	79.0	1.395
3	0.023266	9.352097	28.8	1.228
4	0.032098	6.618109	16.7	1.160
5	0.039130	5.420015	11.8	1.123
6	0.044868	4.760438	9.3	1.099
7	0.049562	4.346356	7.8	1.084
8	0.053433	4.063334	6.8	1.073
9	0.056722	3.858142	6.1	1.064
10	0.059502	3.702719	5.6	1.058
12	0.063966	3.483190	4.9	1.049
14	0.067388	3.335744	4.4	1.043
16	0.070039	3.229966	4.1	1.038
18	0.072274	3.150413	3.8	1.035
20	0.074077	3.088422	3.7	1.032
25	0.077450	2.980398	3.3	1.028
30	0.079793	2.910830	3.1	1.025
35	0.081515	2.862294	3.0	1.023
40	0.082833	2.826508	2.9	1.021
45	0.083875	2.799032	2.8	1.020
50	0.084718	2.777273	2.8	1.019
55	0.085415	2.759615	2.7	1.019
60	0.086001	2.744999	2.7	1.018

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.0006155	0.650242	944.7	1.989
1	0.0233011	9.576408	71.4	1.387
2	0.0388622	9.263509	26.5	1.229
3	0.0517500	6.495964	15.4	1.160
4	0.0620317	5.285205	10.9	1.122
5	0.070297	4.619136	8.6	1.098
6	0.077041	4.201084	7.1	1.082
7	0.0826266	3.915372	6.2	1.070
8	0.0873155	3.708169	5.6	1.063
9	0.0913303	3.551209	5.1	1.055
10	0.0947713	3.429437	4.4	1.046
11	0.1026399	3.180411	4.0	1.039
12	0.1065115	3.073450	3.7	1.035
13	0.1096663	3.092973	3.4	1.031
14	0.1123262	3.030236	3.3	1.029
15	0.1147713	3.020853	3.0	1.024
16	0.1171052	3.050361	3.0	1.021
17	0.1192301	3.701154	3.0	1.019
18	0.1214932	3.664857	3.0	1.018
19	0.1236435	3.636979	3.0	1.017
20	0.1257660	3.614896	3.0	1.016
21	0.1278672	3.596970	3.0	1.015
22	0.1299523	3.582130	3.0	1.014

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.009938	34.520365	877.7	1.990
1	0.0326311	19.618435	69.2	1.389
2	0.0530666	9.193441	25.9	1.230
3	0.0699471	6.403020	15.0	1.161
4	0.0823395	5.183477	10.6	1.123
5	0.0928228	4.512788	8.3	1.099
6	0.1013404	4.091829	6.9	1.083
7	0.1084044	3.804077	6.0	1.070
8	0.1143422	3.595340	5.3	1.061
9	0.1191940	3.437168	4.9	1.054
10	0.1231549	3.213580	4.4	1.044
11	0.1263380	3.063240	4.2	1.038
12	0.1288772	3.055273	3.9	1.033
13	0.1314273	3.073995	3.7	1.030
14	0.1346130	3.810605	3.7	1.027
15	0.1375238	3.700009	3.6	1.025
16	0.1403751	3.629678	3.6	1.023
17	0.1431969	3.578853	3.6	1.021
18	0.1459999	3.542083	3.4	1.017
19	0.1487839	3.513829	3.4	1.015
20	0.1515538	3.491441	3.3	1.014
21	0.1543194	3.473263	3.3	1.013
22	0.1568399	3.458209	3.3	1.012

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2 / A-1	REDUCTION
7	0.013607	237.323956	854.2	1.991
12	0.041286	19.643490	68.9	1.391
3	0.065437	9.137601	25.8	1.233
4	0.084679	6.330589	15.0	1.163
5	0.099951	5.104558	10.6	1.123
6	0.112236	4.430368	8.2	1.099
7	0.122282	4.007145	6.8	1.082
8	0.130628	3.717765	5.9	1.070
9	0.137661	3.507776	5.3	1.061
10	0.143663	3.348598	4.8	1.054
12	0.153353	3.123469	4.1	1.044
14	0.160839	2.971987	3.7	1.037
16	0.166766	2.863129	3.4	1.032
18	0.171595	2.781135	3.2	1.029
20	0.175597	2.717154	3.0	1.026
25	0.183132	2.605445	2.7	1.021
30	0.188405	2.533333	2.5	1.018
35	0.192301	2.482928	2.4	1.016
40	0.195237	2.445708	2.3	1.014
45	0.197672	2.417097	2.2	1.013
50	0.199601	2.394418	2.1	1.012
55	0.201199	2.375997	2.1	1.012
60	0.202544	2.360739	2.1	1.011

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2 / A-1	REDUCTION
3	0.016980	239.446748	348.9	1.992
12	0.048735	19.636443	69.4	1.393
3	0.076083	9.092454	26.0	1.235
4	0.097759	6.272335	16.1	1.164
5	0.114992	5.041784	10.6	1.125
6	0.128871	4.364817	8.2	1.100
7	0.140246	3.939757	6.8	1.083
8	0.149717	3.649027	5.9	1.070
9	0.157715	3.437981	5.2	1.061
10	0.164553	3.277940	4.7	1.054
12	0.175622	3.051465	4.1	1.044
14	0.184188	2.898967	3.6	1.037
16	0.191010	2.789308	3.3	1.032
18	0.196570	2.706660	3.1	1.028
20	0.201137	2.642136	2.9	1.025
25	0.209902	2.529394	2.6	1.020
30	0.216020	2.456547	2.4	1.017
35	0.220551	2.405593	2.3	1.015
40	0.224041	2.367946	2.2	1.014
45	0.226811	2.338994	2.1	1.012
50	0.229064	2.316034	2.1	1.012
55	0.230932	2.297390	2.0	1.011
60	0.232506	2.281924	2.0	1.010

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.020012	1.109253	851.8	1.993
12	0.055286	1.670151	70.1	1.395
15	0.085243	1.905381	26.3	1.237
18	0.109012	1.225836	15.2	1.166
20	0.127914	1.990763	10.7	1.126
22	0.143177	1.311523	8.3	1.101
24	0.155714	1.55714	6.9	1.084
26	0.166175	1.593050	5.9	1.071
28	0.175027	1.381091	5.2	1.062
30	0.182609	1.220295	4.7	1.054
32	0.194915	1.992627	4.1	1.044
34	0.204466	1.839214	3.6	1.037
36	0.212092	1.728824	3.3	1.033
38	0.218330	1.645577	3.1	1.028
40	0.223500	1.580550	2.9	1.025
42	0.228330	1.466844	2.6	1.020
44	0.234021	1.393305	2.4	1.017
46	0.245338	1.334133	2.3	1.013
48	0.249292	1.303775	2.2	1.011
50	0.252436	1.274495	2.1	1.009
52	0.254999	1.251266	2.0	1.007
54	0.257111	1.232398	2.0	1.006
56	0.258910	1.216741	1.9	1.005

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.022714	2.42.446256	853.7	1.594
12	0.060934	1.9.677554	71.0	1.396
15	0.093161	1.9.024484	26.6	1.239
18	0.118723	1.6.136907	15.4	1.167
20	0.139032	1.4.948528	10.8	1.127
22	0.155557	1.4.267387	8.4	1.102
24	0.169116	1.3.839482	6.9	1.084
26	0.180434	1.3.546608	5.9	1.072
28	0.190066	1.3.33847	5.2	1.062
30	0.198316	1.3.172383	4.8	1.055
32	0.211734	1.2.943645	4.1	1.044
34	0.222179	1.2.789402	3.6	1.037
36	0.230338	1.2.678343	3.3	1.032
38	0.237379	1.2.594542	3.1	1.028
40	0.243031	1.2.529047	2.9	1.025
42	0.253898	1.2.414439	2.6	1.020
44	0.261536	1.2.340248	2.4	1.016
46	0.267218	1.2.288279	2.2	1.014
48	0.271610	1.2.249835	2.1	1.011
50	0.275106	1.2.220241	2.0	1.010
52	0.277935	1.2.196754	2.0	1.009
54	0.280322	1.2.177659	2.0	1.008
56	0.282320	1.2.161827	1.9	1.007

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.027255	244.465406	377.0	1.595
1	0.070189	19.687168	72.899	1.399
2	0.106078	8.976078	27.3	1.241
3	0.134567	6.126273	15.8	1.169
4	0.157323	4.882758	11.0	1.129
5	0.175816	4.158390	8.5	1.104
6	0.191091	3.768555	7.0	1.086
7	0.203911	3.474034	6.0	1.073
8	0.214818	3.259928	5.3	1.064
9	0.224208	3.097327	4.8	1.056
10	0.233547	2.866744	4.4	1.045
11	0.241548	2.711047	4.1	1.038
12	0.251195	2.598803	3.9	1.032
13	0.261195	2.514014	3.7	1.028
14	0.269911	2.447680	3.5	1.025
15	0.275746	2.391432	3.4	1.020
16	0.288375	2.333143	3.3	1.016
17	0.297341	2.256043	3.2	1.014
18	0.304053	2.203155	3.1	1.012
19	0.309232	2.163988	3.0	1.011
20	0.313377	2.133807	2.9	1.010
21	0.316763	2.109835	2.8	1.009
22	0.319581	2.090331	2.7	1.009
23	0.321963	2.074152	2.6	1.009

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.030875	245.912609	896.3	1.996
1	0.077403	19.692721	74.5	1.401
2	0.116112	8.939998	27.9	1.243
3	0.146882	6.081302	16.7	1.171
4	0.171338	4.833964	11.2	1.131
5	0.191630	4.147481	8.7	1.105
6	0.208287	3.715781	7.1	1.087
7	0.222309	3.419946	6.1	1.074
8	0.234275	3.204749	5.4	1.065
9	0.244605	3.041215	4.9	1.057
10	0.261541	2.809095	4.4	1.046
11	0.274850	2.652167	4.1	1.038
12	0.285590	2.538908	3.9	1.033
13	0.294441	2.453261	3.7	1.028
14	0.301865	2.386194	3.5	1.025
15	0.316070	2.268499	3.3	1.020
16	0.326205	2.192037	3.2	1.016
17	0.333804	2.138321	3.1	1.014
18	0.339714	2.098495	3.0	1.011
19	0.344444	2.067777	2.9	1.011
20	0.348315	2.043358	2.8	1.010
21	0.351542	2.023478	2.7	1.009
22	0.354274	2.006975	2.6	1.008

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.033805	247.004101	914.3	1.997
1	0.083156	19.696232	76.1	1.402
2	0.124102	8.912126	28.4	1.245
3	0.156699	6.046659	16.4	1.173
4	0.182885	4.796336	11.4	1.133
5	0.204285	4.108039	8.8	1.107
6	0.222076	3.674995	7.3	1.089
7	0.237093	3.378084	6.2	1.076
8	0.249939	3.161984	5.5	1.066
9	0.261056	2.997668	4.9	1.058
10	0.279340	2.764247	4.2	1.047
11	0.293763	2.606264	3.7	1.039
12	0.305441	2.492124	3.3	1.033
13	0.315094	2.405720	3.1	1.029
14	0.323210	2.338013	2.9	1.025
15	0.338799	2.219037	2.5	1.020
16	0.349971	2.141612	2.3	1.016
17	0.358376	2.087148	2.2	1.014
18	0.364932	2.046721	2.1	1.012
19	0.370190	2.015511	2.0	1.011
20	0.374502	1.990681	1.9	1.009
21	0.378102	1.970451	1.9	1.009
22	0.381154	1.953650	1.9	1.008

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.036215	247.855764	930.7	1.997
1	0.087840	19.698590	77.4	1.403
2	0.130601	8.889971	23.9	1.246
3	0.164693	6.019173	16.7	1.174
4	0.192141	4.766495	11.6	1.134
5	0.214627	4.076688	9.0	1.108
6	0.233364	3.642534	7.4	1.090
7	0.249217	3.344725	6.3	1.077
8	0.262807	3.127864	5.6	1.067
9	0.274592	2.962885	5.0	1.059
10	0.294023	2.728347	4.2	1.047
11	0.309412	2.569450	3.7	1.039
12	0.321903	2.454541	3.3	1.034
13	0.332255	2.367489	3.1	1.029
14	0.340980	2.299206	2.9	1.026
15	0.357793	2.179078	2.5	1.020
16	0.369890	2.100785	2.3	1.016
17	0.379020	2.045640	2.2	1.014
18	0.386160	2.004664	2.1	1.012
19	0.391899	1.973002	2.0	1.010
20	0.396614	1.947793	1.9	1.009
21	0.400556	1.927241	1.9	1.009
22	0.403903	1.910162	1.8	1.008

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
20				
1	0.038227	8.538819	945.3	1.598
2	0.091722	19.700249	78.6	1.404
3	0.135986	8.871950	29.4	1.247
4	0.171322	5.996840	16.9	1.176
5	0.199828	4.742219	11.8	1.135
6	0.223229	4.051173	9.1	1.109
7	0.242769	3.616087	7.5	1.091
8	0.259333	3.317517	6.4	1.078
9	0.273561	3.100005	5.6	1.067
10	0.285919	2.934455	5.1	1.060
11	0.306351	2.698950	4.3	1.048
12	0.322570	2.539254	3.8	1.040
13	0.335773	2.423668	3.4	1.034
14	0.346742	2.336033	3.1	1.030
15	0.356005	2.267241	2.9	1.026
16	0.375907	2.146084	2.6	1.020
17	0.386836	2.067005	2.3	1.016
18	0.396623	2.011239	2.1	1.014
19	0.404294	1.969761	2.0	1.010
20	0.410473	1.937682	1.9	1.009
21	0.415557	1.912122	1.8	1.008
22	0.419814	1.891271	1.8	1.008
23	0.423433	1.873934	1.8	1.008

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
25				
1	0.042039	249.772205	975.3	1.598
2	0.099017	19.702747	81.0	1.406
3	0.146103	8.838858	30.2	1.249
4	0.183799	5.955875	17.4	1.178
5	0.214325	4.697642	12.1	1.137
6	0.239486	4.004256	9.1	1.111
7	0.260582	3.567382	7.7	1.093
8	0.278536	3.267333	6.5	1.079
9	0.294014	3.048544	5.8	1.069
10	0.307507	2.881866	5.2	1.061
11	0.329921	2.644426	4.4	1.049
12	0.347815	2.483112	3.8	1.041
13	0.362469	2.366143	3.5	1.035
14	0.374696	2.277306	3.2	1.031
15	0.385067	2.207458	3.0	1.027
16	0.405237	2.084140	2.6	1.021
17	0.419918	2.003392	2.4	1.017
18	0.431101	1.946292	2.2	1.014
19	0.439914	1.903724	2.1	1.012
20	0.447042	1.870736	2.0	1.011
21	0.452930	1.844406	1.9	1.009
22	0.457877	1.822895	1.8	1.008
23	0.462093	1.804985	1.8	1.008

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.044719	0.597259	998.0	1.999
1	0.104106	19.704079	82.8	1.407
2	0.153161	8.816336	30.9	1.251
3	0.192518	5.928017	17.8	1.179
4	0.224481	4.667290	12.4	1.139
5	0.250906	3.972254	9.5	1.112
6	0.273127	3.534101	7.3	1.094
7	0.292094	3.232979	6.7	1.081
8	0.308490	3.013254	5.9	1.071
9	0.322820	2.845740	5.3	1.062
10	0.346712	2.606851	4.4	1.050
11	0.365879	2.444309	3.9	1.042
12	0.381630	2.326277	3.5	1.036
13	0.394827	2.236508	3.2	1.031
14	0.406057	2.165832	3.0	1.028
15	0.428010	2.040801	2.6	1.021
16	0.444090	1.958706	2.4	1.017
17	0.456403	1.900518	2.2	1.014
18	0.466149	1.857049	2.1	1.012
19	0.474062	1.823304	2.0	1.011
20	0.480619	1.796328	1.9	1.010
21	0.486143	1.774258	1.8	1.009
22	0.490863	1.755861	1.8	1.008

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
35	0.046701	0.187966	1015.8	1.999
1	0.107852	19.704875	34.2	1.408
2	0.158350	8.800027	31.4	1.252
3	0.198951	5.907851	18.1	1.181
4	0.231937	4.645296	12.6	1.140
5	0.259362	3.949035	9.7	1.114
6	0.282435	3.509920	7.9	1.095
7	0.302171	3.207984	6.8	1.082
8	0.319269	2.987544	6.0	1.073
9	0.334244	2.819386	5.4	1.063
10	0.359281	2.579371	4.5	1.051
11	0.379438	2.415865	4.0	1.043
12	0.396057	2.296992	3.6	1.037
13	0.410023	2.206479	3.3	1.032
14	0.421940	2.135139	3.0	1.028
15	0.445331	2.003716	2.7	1.022
16	0.462555	1.925513	2.4	1.018
17	0.475803	1.866420	2.2	1.015
18	0.486327	1.822195	2.1	1.013
19	0.494899	1.787810	2.0	1.011
20	0.502022	1.760284	1.9	1.010
21	0.508058	1.737735	1.9	1.009
22	0.513139	1.718918	1.8	1.008

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
40	0.048226	1.631757	1.025.5	2.000
41	0.110724	1.705391	1.035.3	1.409
42	0.162346	1.787676	1.041.8	1.253
43	0.203889	1.892580	1.048.3	1.182
44	0.237758	1.962862	1.052.7	1.141
45	0.265873	2.033430	1.059.8	1.115
46	0.289612	2.091536	1.066.0	1.096
47	0.309954	2.148981	1.073.9	1.083
48	0.327607	2.206797	1.081.0	1.072
49	0.343092	2.264930	1.089.4	1.064
50	0.356904	2.323394	1.097.6	1.052
51	0.369994	2.382111	1.105.6	1.044
52	0.407315	2.441556	1.113.3	1.037
53	0.421905	2.501152	1.121.7	1.033
54	0.434383	2.561976	1.129.4	1.029
55	0.458961	2.623988	1.137.2	1.023
56	0.477137	2.687221	1.145.1	1.018
57	0.493171	2.751886	1.153.0	1.013
58	0.502354	2.817855	1.161.0	1.011
59	0.511490	2.885185	1.169.9	1.010
60	0.519099	2.953232	1.178.8	1.009
61	0.525540	3.022039	1.187.8	1.008
62	0.531065			1.008

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
45	0.049435	1.977381	1.041.4	2.000
46	0.112994	2.057455	1.046.4	1.410
47	0.165499	2.178000	1.051.4	1.254
48	0.207799	2.288061	1.056.5	1.183
49	0.242332	2.391559	1.061.9	1.143
50	0.271041	2.491759	1.067.0	1.114
51	0.295531	2.587735	1.072.1	1.097
52	0.316146	2.679404	1.077.1	1.083
53	0.333424	2.766383	1.082.1	1.073
54	0.350147	2.849500	1.087.1	1.066
55	0.376842	2.928851	1.092.1	1.053
56	0.398446	3.004331	1.097.1	1.044
57	0.416345	3.076887	1.102.1	1.038
58	0.431453	3.146518	1.107.1	1.033
59	0.444399	3.213248	1.112.1	1.029
60	0.469971	3.279386	1.117.1	1.023
61	0.488954	3.344373	1.122.1	1.018
62	0.503658	3.408873	1.127.1	1.013
63	0.515408	3.473452	1.132.1	1.011
64	0.525503	3.538041	1.137.1	1.010
65	0.533306	3.602626	1.142.1	1.010
66	0.539873	3.666300	1.147.1	1.009
67	0.545726	3.729795	1.152.1	1.008

CONFIDENCE LEVEL=.95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
50	1	252	105	2
1	0.050416	0.254168	1.0	0.000
2	0.114834	0.706000	0.9	0.410
3	0.168055	0.770215	0.8	0.254
4	0.210971	0.870991	0.7	0.183
5	0.246047	0.605040	0.6	0.142
6	0.275241	0.906466	0.5	0.116
7	0.299956	0.465510	0.4	0.098
8	0.321133	0.161998	0.3	0.084
9	0.339666	0.640157	0.2	0.074
10	0.355904	0.770730	0.1	0.065
11	0.383217	0.528471	0.0	0.053
12	0.405366	0.363017	0.0	0.045
13	0.423731	0.242424	0.0	0.038
14	0.439295	0.150373	0.0	0.034
15	0.452637	0.077648	0.0	0.030
16	0.479054	0.948277	0.0	0.023
17	0.498730	0.862683	0.0	0.019
18	0.514012	0.802604	0.0	0.015
19	0.526253	0.753699	0.0	0.013
20	0.536630	0.719872	0.0	0.012
21	0.544704	0.691093	0.0	0.010
22	0.551843	0.667446	0.0	0.009
23	0.557985	0.647656	0.0	0.008

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
55	1	252	105	2
1	0.033123	0.430820	1.0	0.000
2	0.116355	0.706190	0.9	0.410
3	0.170169	0.763817	0.8	0.255
4	0.213596	0.863080	0.7	0.183
5	0.249123	0.596390	0.6	0.143
6	0.273722	0.897307	0.5	0.116
7	0.300380	0.455940	0.4	0.098
8	0.325375	0.152074	0.3	0.084
9	0.344133	0.929916	0.2	0.074
10	0.360691	0.760200	0.1	0.066
11	0.383527	0.517424	0.0	0.054
12	0.411137	0.351517	0.0	0.045
13	0.429935	0.230520	0.0	0.039
14	0.445852	0.138105	0.0	0.034
15	0.459532	0.065048	0.0	0.030
16	0.486678	0.934964	0.0	0.023
17	0.506954	0.848782	0.0	0.019
18	0.522740	0.787208	0.0	0.016
19	0.535415	0.740879	0.0	0.013
20	0.545836	0.704684	0.0	0.012
21	0.554567	0.675582	0.0	0.010
22	0.561995	0.651650	0.0	0.009
23	0.568397	0.631605	0.0	0.008

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.05191	0.66982	1065.8	2.000
59	0.11763	0.70633	885.8	1.411
58	0.17194	0.75846	758.8	1.255
57	0.22517	0.81632	658.8	1.184
56	0.28171	0.88963	580.8	1.143
55	0.34070	0.94792	520.8	1.109
54	0.39289	1.01437	471.8	1.085
53	0.44793	1.09233	436.8	1.075
52	0.50647	1.18536	416.8	1.066
51	0.56930	1.30814	404.8	1.054
50	0.63660	1.44185	404.8	1.046
49	0.70917	1.59506	404.8	1.039
48	0.78738	1.77776	404.8	1.034
47	0.87139	1.99443	404.8	1.030
46	0.96130	2.23726	404.8	1.024
45	1.05802	2.50299	404.8	1.016
44	1.16135	2.79184	404.8	1.014
43	1.27130	3.10911	404.8	1.012
42	1.38803	3.46240	404.8	1.009
41	1.51072	3.85219	404.8	1.008
40	1.63735	4.27939	404.8	1.008

CONFIDENCE LEVEL = .95  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	647.789011	*	2.0000
2	0.0	38.506329	*	1.4255
3	0.0	17.443443	*	1.2877
4	0.0	12.217863	*	1.2300
5	0.0	10.006982	*	1.1999
6	0.0	8.813101	*	1.1811
7	0.0	8.072669	*	1.1688
8	0.0	7.570882	*	1.1599
9	0.0	7.209283	*	1.1535
10	0.0	6.936728	*	1.1477
12	0.0	6.553769	*	1.1400
14	0.0	6.297939	*	1.1335
16	0.0	6.115127	*	1.1283
18	0.0	5.978052	*	1.1238
20	0.0	5.871494	*	1.1196
25	0.0	5.686366	*	1.1122
30	0.0	5.567535	*	1.1060
35	0.0	5.484320	*	1.1008
40	0.0	5.423937	*	1.0966
45	0.0	5.377254	*	1.0930
50	0.0	5.340323	*	1.0897
55	0.0	5.310379	*	1.0864
60	0.0	5.285611	*	1.0833

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
2	2.0E-7	799.512483	123204.1	1.9996
3	0.000015	39.024345	643.0	1.4006
4	0.000073	6.078230	642.6	1.2555
5	0.000164	0.690764	551.6	1.1839
6	0.000269	8.481039	551.9	1.1554
7	0.000376	7.311749	651.6	1.1322
8	0.000477	6.596958	551.4	1.1177
9	0.000571	6.117765	421.3	1.1006
10	0.000657	5.775352	371.0	1.0908
12	0.000735	5.519001	331.0	1.0822
14	0.000870	5.161547	271.7	1.0733
16	0.000981	4.924675	224.5	1.0777
18	0.001074	4.756419	222.3	1.0722
20	0.001151	4.633084	200.7	1.0699
25	0.001217	4.533575	199.6	1.0666
30	0.001346	4.363369	177.6	1.0611
35	0.001439	4.257940	166.4	1.0580
40	0.001509	4.183420	155.6	1.0560
45	0.001563	4.128708	151.0	1.0555
50	0.001607	4.086839	144.6	1.0553
55	0.001643	4.053767	144.2	1.0552
60	0.001673	4.026935	144.0	1.0552
60	0.001699	4.004855	133.7	1.0511

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.000129	864.3285224	7780.9	1.595
1	0.001419	39.322669	254.5	1.396
2	0.003449	5.5922648	72.2	1.240
3	0.005510	1.0134511	37.0	1.171
4	0.007361	7.921207	24.4	1.133
5	0.008960	6.758407	18.3	1.100
6	0.010326	6.051039	14.8	1.055
7	0.011496	5.578473	12.7	1.083
8	0.012501	5.241669	11.2	1.075
9	0.013371	4.990020	10.1	1.069
10	0.014797	4.639865	8.6	1.059
11	0.015911	4.408318	7.7	1.053
12	0.016803	4.244037	7.1	1.048
13	0.017532	4.121641	6.6	1.045
14	0.018133	4.026379	6.3	1.042
15	0.019283	3.863156	5.7	1.038
16	0.020068	3.758689	5.5	1.035
17	0.020630	3.686269	5.1	1.033
18	0.021137	3.633120	4.9	1.031
19	0.021499	3.592460	4.8	1.030
20	0.021794	3.560350	4.7	1.029
21	0.022037	3.534352	4.6	1.028
22	0.022242	3.512873	4.5	1.028

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.001071	900.0753862	3654.9	1.594
1	0.006329	39.5000000	159.0	1.394
2	0.012486	5.320195	49.0	1.236
3	0.017998	1.0813718	26.0	1.166
4	0.022634	7.5832651	17.4	1.127
5	0.026485	6.4229460	13.2	1.103
6	0.029696	5.723358	10.7	1.087
7	0.032395	5.252277	9.2	1.076
8	0.034638	4.916864	8.1	1.067
9	0.036654	4.666433	7.3	1.060
10	0.039843	4.313222	6.2	1.051
11	0.042310	4.088111	5.6	1.044
12	0.044271	3.924962	5.1	1.040
13	0.045867	3.803354	4.8	1.036
14	0.047188	3.709256	4.5	1.034
15	0.049674	3.546704	4.1	1.033
16	0.051410	3.442996	3.8	1.032
17	0.052690	3.371103	3.6	1.031
18	0.053672	3.318342	3.5	1.030
19	0.054450	3.277977	3.4	1.029
20	0.055081	3.246100	3.3	1.029
21	0.055603	3.220290	3.2	1.028
22	0.056042	3.199966	3.2	1.019

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.0033011	0.523730	2733.8	1.995
1	0.0133259	0.595455	134.6	1.395
2	0.023792	0.630962	42.8	1.236
3	0.032768	0.659321	22.9	1.165
4	0.040145	0.686626	15.4	1.126
5	0.046198	0.702724	11.7	1.100
6	0.051208	0.719694	9.5	1.085
7	0.055404	0.736643	8.1	1.073
8	0.058957	0.753587	7.1	1.064
9	0.061999	0.769425	6.4	1.057
10	0.066926	0.784225	5.9	1.047
11	0.070734	0.798668	5.4	1.041
12	0.073765	0.810191	4.9	1.036
13	0.076224	0.820603	4.4	1.032
14	0.078264	0.830672	4.1	1.030
15	0.080003	0.840537	3.8	1.029
16	0.081476	0.850209	3.5	1.028
17	0.082764	0.859603	3.3	1.027
18	0.083884	0.868660	3.1	1.026
19	0.084888	0.877439	2.9	1.025
20	0.085793	0.885969	2.8	1.024
21	0.086614	0.894278	2.7	1.023
22	0.087353	0.902393	2.6	1.022
23	0.088028	0.910353	2.5	1.021
24	0.088648	0.918193	2.4	1.020
25	0.089214	0.925943	2.3	1.019
26	0.089727	0.933633	2.2	1.018
27	0.090195	0.941293	2.1	1.017
28	0.090615	0.948853	2.0	1.016
29	0.090985	0.956333	1.9	1.015
30	0.091305	0.963763	1.8	1.014
31	0.091575	0.971163	1.7	1.013
32	0.091795	0.978553	1.6	1.012

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.005512	0.890446	2406.3	1.995
1	0.020582	0.964865	126.1	1.395
2	0.033061	0.990342	40.7	1.236
3	0.047145	0.999034	21.9	1.165
4	0.056945	0.999069	14.7	1.126
5	0.064974	0.999344	11.1	1.100
6	0.071611	0.999585	9.0	1.085
7	0.077163	0.999733	7.7	1.073
8	0.081874	0.999839	6.7	1.064
9	0.085907	0.999901	6.0	1.057
10	0.089244	0.999969	5.4	1.047
11	0.091951	0.999991	4.9	1.041
12	0.101543	0.999996	4.4	1.036
13	0.104827	0.999997	4.1	1.032
14	0.107533	0.999998	3.8	1.030
15	0.110628	0.999999	3.5	1.029
16	0.113189	0.999999	3.3	1.028
17	0.115209	0.999999	3.1	1.027
18	0.116761	0.999999	2.9	1.026
19	0.117933	0.999999	2.8	1.025
20	0.118821	0.999999	2.7	1.024
21	0.119453	0.999999	2.6	1.023
22	0.119939	0.999999	2.5	1.022
23	0.120281	0.999999	2.4	1.021
24	0.120593	0.999999	2.3	1.020
25	0.120875	0.999999	2.2	1.019
26	0.121129	0.999999	2.1	1.018
27	0.121359	0.999999	2.0	1.017
28	0.121559	0.999999	1.9	1.016
29	0.121733	0.999999	1.8	1.015
30	0.121885	0.999999	1.7	1.014
31	0.122019	0.999999	1.6	1.013
32	0.122139	0.999999	1.5	1.012

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.008184	9.052920	2269.8	1.596
1	0.027534	9.679993	123.2	1.397
2	0.045426	4.881883	40.0	1.238
3	0.060161	9.307871	21.5	1.166
4	0.072116	7.074731	14.4	1.126
5	0.081884	5.909670	10.9	1.101
6	0.089964	5.203935	8.8	1.084
7	0.096736	4.733719	7.5	1.072
8	0.102483	4.359160	6.5	1.062
9	0.107413	4.149459	5.9	1.055
10	0.111545	3.802311	5.0	1.045
11	0.115435	3.572860	4.4	1.038
12	0.119164	3.410113	4.0	1.033
13	0.122661	3.288745	3.7	1.029
14	0.126060	3.194785	3.4	1.027
15	0.129303	3.103236	3.1	1.022
16	0.132486	3.023578	2.9	1.018
17	0.135617	2.856583	2.7	1.016
18	0.138693	2.803705	2.5	1.015
19	0.141719	2.763224	2.5	1.014
20	0.144686	2.731238	2.4	1.013
25	0.148179	2.705328	2.3	1.012
30	0.150730	2.683911	2.3	1.011
35	0.152755			
40	0.154402			
45	0.155767			
50	0.156917			
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.010797	5.521529	2212.5	1.596
1	0.033385	9.699437	122.5	1.397
2	0.054672	4.795893	39.9	1.238
3	0.071714	9.210536	21.4	1.166
4	0.085526	6.575276	14.4	1.126
5	0.096820	5.809730	10.9	1.101
6	0.106177	5.103864	8.7	1.084
7	0.114034	4.633588	7.4	1.072
8	0.120712	4.298974	6.5	1.062
9	0.126453	4.049204	5.9	1.055
10	0.131580	3.701889	4.9	1.045
11	0.135803	3.472251	4.3	1.038
12	0.143084	3.309314	3.9	1.033
13	0.148911	3.187764	3.6	1.029
14	0.153676	3.093634	3.4	1.027
15	0.157645	2.930815	3.0	1.022
16	0.165164	2.826758	2.7	1.018
17	0.170461	2.754522	2.6	1.015
18	0.174395	2.701446	2.5	1.014
19	0.177843	2.660800	2.4	1.013
20	0.181807	2.623675	2.3	1.012
25	0.183437	2.602646	2.3	1.011
30	0.184812	2.581127	2.2	1.011
35				
40				
45				
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55				
60				

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.013251	964.163642	2193.0	1.996
1	0.039501	39.712037	2123.0	1.400
3	0.062833	14.726180	140.1	1.241
4	0.081872	9.131981	21.6	1.169
5	0.097306	6.895021	14.4	1.128
6	0.109945	5.729023	10.8	1.103
7	0.120434	5.022974	8.7	1.085
8	0.129259	4.552570	7.4	1.073
9	0.136774	4.217832	6.5	1.063
10	0.143246	3.967934	5.8	1.056
11	0.153813	3.620352	4.8	1.045
12	0.162066	3.390448	4.2	1.038
13	0.168687	3.227261	3.8	1.032
14	0.174114	3.105480	3.5	1.035
15	0.178642	3.011137	3.3	1.026
16	0.187242	2.847871	3.1	1.020
17	0.193321	2.743461	2.9	1.017
18	0.197845	2.670941	2.7	1.015
19	0.201342	2.617636	2.5	1.013
20	0.204127	2.576799	2.3	1.012
25	0.206396	2.544515	2.1	1.011
30	0.208281	2.518349	2.0	1.010
35	0.209871	2.496713	2.0	1.010

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.015509	969.511422	2192.8	1.997
1	0.044513	39.720503	2124.0	1.401
3	0.070022	14.668600	140.5	1.242
4	0.090801	9.067304	21.7	1.170
5	0.107659	6.828935	14.5	1.129
6	0.121487	5.662313	10.9	1.104
7	0.132935	4.956250	8.8	1.086
8	0.142676	4.485576	7.4	1.073
9	0.150946	4.150775	6.5	1.063
10	0.158079	3.900713	5.8	1.056
11	0.169754	3.532806	4.8	1.045
12	0.178899	3.323593	4.2	1.038
13	0.186252	3.159120	3.8	1.032
14	0.192293	3.037079	3.5	1.035
15	0.197342	2.942502	3.3	1.026
16	0.206957	2.778743	3.1	1.020
17	0.213773	2.673949	2.9	1.017
18	0.218856	2.601123	2.7	1.015
19	0.222794	2.547568	2.5	1.013
20	0.225933	2.506526	2.3	1.012
25	0.228494	2.474069	2.1	1.011
30	0.230624	2.447756	2.0	1.010
35	0.232423	2.425994	2.0	1.009

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.019429	977.588775	2219.0	1.597
2	0.052917	39.730513	226.6	1.403
3	0.081985	14.579197	141.3	1.244
4	0.105640	8.967184	22.2	1.172
5	0.124876	6.726586	14.8	1.131
6	0.140706	5.559391	11.1	1.105
7	0.153918	4.852662	8.9	1.087
8	0.165093	4.381690	7.5	1.074
9	0.174661	4.046405	6.5	1.065
10	0.182943	3.795967	5.8	1.057
11	0.196554	3.447332	4.8	1.046
12	0.207272	3.216444	4.2	1.038
13	0.215929	3.052357	3.8	1.033
14	0.223068	2.929762	3.5	1.029
15	0.229037	2.834687	3.2	1.025
16	0.234051	2.766989	3.0	1.020
17	0.238682	2.716429	2.8	1.016
18	0.242801	2.679082	2.6	1.014
19	0.246556	2.643674	2.5	1.013
20	0.250956	2.609527	2.4	1.011
21	0.255058	2.576245	2.3	1.010
22	0.258871	2.543583	2.2	1.009
23	0.262467	2.511380	2.1	1.009
24	0.265905			
25	0.269058			
26	0.271249			

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.022653	983.393587	2258.0	1.598
2	0.059611	39.735723	223.4	1.404
3	0.091436	14.513114	142.3	1.246
4	0.117383	8.893362	23.5	1.174
5	0.133517	6.651059	14.5	1.133
6	0.153964	5.483180	11.3	1.107
7	0.170572	4.775984	9.0	1.089
8	0.182967	4.304595	7.6	1.075
9	0.193612	3.968907	6.6	1.066
10	0.202851	3.718077	5.9	1.058
11	0.211809	3.538697	4.9	1.046
12	0.220152	3.437125	4.3	1.039
13	0.227993	3.372422	3.8	1.033
14	0.235015	3.33701	3.5	1.029
15	0.241483	3.284927	3.2	1.026
16	0.247914	3.258787	3.0	1.020
17	0.254289	3.241463	2.8	1.016
18	0.260728	3.23349	2.6	1.014
19	0.267239	3.232748	2.5	1.012
20	0.273857	3.231083	2.4	1.011
21	0.279785	3.227765	2.3	1.010
22	0.285087	3.225072	2.2	1.009
23	0.290087	3.222842	2.1	1.008
24	0.294825			
25	0.299342			
26	0.303425			

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.0255316	987.777720	2299.0	1.998
1	0.0650028	39.738601	131.9	1.405
2	0.099097	14.462344	43.1	1.247
3	0.126858	8.836724	23.0	1.175
4	0.149542	6.593062	15.3	1.134
5	0.168318	5.424581	11.4	1.108
6	0.184083	4.716943	9.2	1.090
7	0.197497	4.245150	7.7	1.077
8	0.209047	3.909073	6.7	1.066
9	0.219096	3.657865	6.0	1.059
10	0.2235729	3.477769	5.5	1.047
11	0.2248940	3.307345	4.9	1.039
12	0.2259691	3.190252	4.3	1.034
13	0.2268615	3.090528	3.8	1.029
14	0.2276145	2.990575	3.3	1.026
15	0.2290668	2.923707	3.0	1.020
16	0.2301125	2.841519	2.6	1.016
17	0.2309019	2.741784	2.4	1.014
18	0.2315191	2.666673	2.2	1.012
19	0.2320151	2.643441	2.1	1.011
20	0.2324225	2.610798	2.0	1.010
21	0.2327631	2.583559	1.9	1.009
22	0.2330521	2.560998	1.9	1.008

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.0275539	991.196534	2338.4	1.998
1	0.0694836	39.740250	134.1	1.406
2	0.105372	14.422148	43.1	1.248
3	0.134643	8.791916	23.0	1.176
4	0.158614	6.547140	15.3	1.135
5	0.178501	5.378130	11.4	1.109
6	0.195240	4.670084	9.2	1.091
7	0.209517	4.197914	7.8	1.077
8	0.221836	3.861473	6.8	1.067
9	0.222577	3.609912	6.0	1.059
10	0.230408	3.259149	5.5	1.048
11	0.2364619	3.026316	4.9	1.040
12	0.2376221	2.860474	4.3	1.034
13	0.2385878	2.736302	3.8	1.030
14	0.2394044	2.639810	3.3	1.026
15	0.309853	2.472056	3.0	1.020
16	0.321284	2.364133	2.6	1.016
17	0.329942	2.288806	2.4	1.014
18	0.336731	2.233210	2.2	1.012
19	0.342198	2.190473	2.1	1.011
20	0.346697	2.156386	2.0	1.010
21	0.350465	2.129053	1.9	1.009
22	0.353666	2.106237	1.9	1.008

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





20	DF	C-1	C-2	A-2/A-1	REDUCTION
	1	0.029415	0.939637	2.748	0.999
	2	0.073211	0.741210	2.374	0.407
	3	0.110608	0.589550	2.144	0.249
	4	0.144114	0.489593	1.944	0.177
	5	0.166199	0.420885	1.823	0.136
	6	0.187025	0.374048	1.741	0.110
	7	0.204593	0.331991	1.689	0.092
	8	0.219612	0.299474	1.647	0.078
	9	0.232594	0.272269	1.616	0.068
	10	0.243634	0.250311	1.596	0.060
	11	0.252806	0.231944	1.580	0.048
	12	0.260245	0.215960	1.564	0.040
	13	0.266333	0.201881	1.550	0.034
	14	0.271255	0.189196	1.538	0.030
	15	0.275100	0.177581	1.527	0.026
	16	0.278024	0.166833	1.517	0.020
	17	0.280191	0.156899	1.508	0.017
	18	0.281661	0.147689	1.500	0.014
	19	0.282479	0.139111	1.493	0.012
	20	0.282700	0.131166	1.487	0.009
	21	0.282479	0.123834	1.482	0.009
	22	0.281661	0.117077	1.477	0.008
	23	0.280191	0.110837	1.473	
	24	0.278024	0.105073	1.469	

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

25	DF	C-1	C-2	A-2/A-1	REDUCTION
	1	0.033016	0.899118	2.432	0.999
	2	0.080302	0.742321	2.140	0.408
	3	0.110608	0.589598	1.944	0.249
	4	0.144114	0.489593	1.823	0.177
	5	0.166199	0.420885	1.741	0.136
	6	0.187025	0.374048	1.689	0.110
	7	0.204593	0.331991	1.647	0.092
	8	0.219612	0.299474	1.616	0.078
	9	0.232594	0.272269	1.596	0.068
	10	0.243634	0.250311	1.580	0.060
	11	0.252806	0.231944	1.564	0.048
	12	0.260245	0.215960	1.550	0.040
	13	0.266333	0.201881	1.538	0.034
	14	0.271255	0.189196	1.527	0.030
	15	0.275100	0.177581	1.517	0.026
	16	0.278024	0.166833	1.508	0.020
	17	0.280191	0.156899	1.500	0.017
	18	0.281661	0.147689	1.493	0.014
	19	0.282479	0.139111	1.487	0.012
	20	0.282700	0.131166	1.482	0.009
	21	0.282479	0.123834	1.477	0.009
	22	0.281661	0.117077	1.473	0.008
	23	0.280191	0.110837	1.469	
	24	0.278024	0.105073	1.465	

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.0355580	0.211782	2.513.2	1.999
1	0.085253	0.742277	1.44.0	1.409
2	0.127516	1.289445	1.46.9	1.252
3	0.162183	1.644084	2.5.1	1.180
4	0.190810	1.935325	1.6.6	1.140
5	0.214786	2.224169	1.2.4	1.113
6	0.235156	2.514356	1.2.9	1.095
7	0.252688	2.804051	8.3	1.081
8	0.267951	3.092453	7.2	1.071
9	0.281336	3.344931	6.4	1.063
10	0.303900	3.595568	5.3	1.051
11	0.322211	3.859998	4.6	1.042
12	0.335717	4.091666	4.1	1.036
13	0.349855	4.362337	3.7	1.032
14	0.360689	4.666997	3.4	1.028
15	0.381983	4.945991	2.9	1.021
16	0.397673	5.183179	2.6	1.014
17	0.409742	5.404999	2.4	1.011
18	0.419325	5.604703	2.3	1.012
19	0.427127	5.800229	2.1	1.011
20	0.433605	5.966691	2.1	1.010
25	0.439073	6.193767	2.0	1.009
30	0.443751	6.413568	1.9	1.008

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
35	0.037494	0.587044	2.561.4	2.000
1	0.088941	0.742113	1.46.6	1.410
2	0.132691	1.250121	1.47.3	1.253
3	0.168635	1.611527	2.5.5	1.183
4	0.198393	1.936181	1.6.9	1.141
5	0.223356	2.190092	1.2.6	1.114
6	0.244623	2.479789	1.0.1	1.096
7	0.262971	2.700547	8.5	1.082
8	0.278979	2.966695	7.3	1.072
9	0.293083	3.241337	6.5	1.064
10	0.311683	3.587772	5.4	1.052
11	0.333611	3.822412	4.6	1.042
12	0.352107	4.053355	4.1	1.037
13	0.365614	4.226761	3.7	1.032
14	0.377190	4.427113	3.5	1.028
15	0.400039	4.653693	3.0	1.021
16	0.416970	4.914104	2.6	1.018
17	0.430053	5.062128	2.4	1.015
18	0.440483	5.200340	2.3	1.011
19	0.449002	5.358017	2.1	1.011
20	0.456098	5.521858	2.1	1.010
25	0.462102	5.892355	2.0	1.009
30	0.467251	6.267814	1.9	1.008

CONFIDENCE LEVEL=.975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
40	0.038974	1006.371933	2600.4	2.000
1	0.091780	39.741864	148.7	1.410
2	0.136675	14.238126	48.4	1.254
3	0.173608	8.586907	25.9	1.182
4	0.204228	6.336453	17.2	1.141
5	0.229981	5.164275	12.8	1.115
6	0.251954	4.453575	10.2	1.097
7	0.270945	3.978882	8.6	1.083
8	0.287544	3.639984	7.4	1.073
9	0.302194	3.386033	6.6	1.064
10	0.326927	3.030732	5.4	1.052
11	0.347058	2.793720	4.7	1.044
12	0.363809	2.624061	4.2	1.038
13	0.377992	2.496414	3.8	1.033
14	0.390176	2.396756	3.5	1.029
15	0.401433	2.323229	3.0	1.022
16	0.412283	2.271088	2.7	1.018
17	0.422833	2.233980	2.5	1.015
18	0.433734	2.196960	2.3	1.011
19	0.444650	2.163652	2.2	1.010
20	0.457413	2.138870	2.1	1.010
25	0.480606	1.857071	2.0	1.009
30	0.486165	1.832150	1.9	1.008

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
45	0.040152	1007.762221	2652.4	2.000
1	0.094032	39.741596	150.4	1.411
2	0.139836	14.220837	49.0	1.254
3	0.177558	8.567638	26.2	1.183
4	0.208875	6.316591	17.4	1.142
5	0.235235	5.144041	13.0	1.116
6	0.257796	4.433013	10.4	1.097
7	0.277308	3.958002	8.7	1.084
8	0.294387	3.618793	7.5	1.073
9	0.309481	3.364537	6.7	1.065
10	0.323501	3.008650	5.5	1.053
11	0.335855	2.771093	4.7	1.044
12	0.347322	2.600929	4.2	1.038
13	0.357973	2.472814	3.8	1.033
14	0.400665	2.372725	3.5	1.029
15	0.425886	2.197253	3.0	1.022
16	0.444737	2.083062	2.7	1.018
17	0.459411	2.002552	2.5	1.015
18	0.471184	1.942604	2.3	1.011
19	0.480853	1.896162	2.2	1.010
20	0.488945	1.859908	2.1	1.010
25	0.495823	1.828769	2.0	1.009
30	0.501741	1.803510	1.9	1.008

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
50				
1	0.041111	1008.875737	2659.2	2.000
2	0.095862	399.741338	1511.8	1.411
3	0.142404	14.206941	49.5	1.255
4	0.180769	8.552148	26.4	1.183
5	0.212658	6.300615	17.5	1.143
6	0.239551	5.127756	13.1	1.116
7	0.262561	4.416452	10.5	1.098
8	0.282502	3.941175	8.8	1.084
9	0.299978	3.601703	7.6	1.074
10	0.315442	3.347189	6.7	1.066
11	0.329164	3.149080	5.9	1.053
12	0.341643	2.990809	5.3	1.045
13	0.353068	2.852788	4.8	1.038
14	0.363497	2.732194	4.3	1.034
15	0.372961	2.625368	3.9	1.030
16	0.381515	2.532221	3.6	1.026
17	0.389211	2.450936	3.3	1.023
18	0.396119	2.379336	3.0	1.020
19	0.402315	2.316206	2.7	1.016
20	0.407861	2.260972	2.5	1.013
21	0.412737	2.212052	2.3	1.010
22	0.417013	2.169134	2.1	1.009
23	0.420750	2.13184	2.0	1.008
24	0.423933	2.099532	1.9	1.007
25	0.426548	2.071797	1.8	1.006
26	0.428588	2.048141	1.7	1.005
27	0.430051	2.028171	1.6	1.004
28	0.431037	2.011596	1.5	1.003
29	0.431548	1.998021	1.4	1.002
30	0.431685	1.987166	1.3	1.001
31	0.431451	1.978741	1.2	1.000
32	0.430851	1.972576	1.1	0.999
33	0.429891	1.968491	1.0	0.998
34	0.428588	1.966260	0.9	0.997
35	0.426961	1.965737	0.8	0.996
36	0.424933	1.966797	0.7	0.995
37	0.422548	1.969241	0.6	0.994
38	0.419851	1.973076	0.5	0.993
39	0.416915	1.978311	0.4	0.992
40	0.413801	1.984956	0.3	0.991
41	0.410588	1.993011	0.2	0.990
42	0.407351	2.002486	0.1	0.989
43	0.404088	2.013391	0.0	0.988
44	0.400801	2.025736	0.0	0.987
45	0.397488	2.039521	0.0	0.986
46	0.394151	2.054756	0.0	0.985
47	0.390791	2.071441	0.0	0.984
48	0.387408	2.089576	0.0	0.983
49	0.383991	2.109161	0.0	0.982
50	0.380548	2.130206	0.0	0.981
51	0.377081	2.152711	0.0	0.980
52	0.373591	2.176676	0.0	0.979
53	0.369988	2.202101	0.0	0.978
54	0.366281	2.229086	0.0	0.977
55	0.362488	2.257631	0.0	0.976
56	0.358615	2.287736	0.0	0.975
57	0.354671	2.319401	0.0	0.974
58	0.350668	2.352626	0.0	0.973
59	0.346615	2.387411	0.0	0.972
60	0.342521	2.423756	0.0	0.971

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
55				
1	0.041907	1009.787649	2681.8	2.000
2	0.0973377	399.741098	1533.0	1.411
3	0.144532	14.195529	49.8	1.255
4	0.183432	8.539425	26.6	1.184
5	0.215796	6.287486	17.7	1.143
6	0.243119	5.114366	13.2	1.116
7	0.266521	4.402829	10.5	1.098
8	0.286823	3.927324	8.8	1.085
9	0.304653	3.587629	7.6	1.074
10	0.320408	3.332895	6.8	1.066
11	0.334717	3.137609	5.9	1.054
12	0.347910	2.973767	5.3	1.045
13	0.360100	2.837851	4.8	1.038
14	0.371452	2.727072	4.3	1.034
15	0.382079	2.637072	3.9	1.030
16	0.391957	2.563007	3.6	1.026
17	0.401185	2.504460	3.3	1.023
18	0.409774	2.459630	3.0	1.020
19	0.417749	2.427115	2.7	1.016
20	0.425133	2.405485	2.5	1.013
21	0.431956	2.393248	2.3	1.010
22	0.438249	2.390093	2.1	1.009
23	0.443941	2.395760	2.0	1.008
24	0.449072	2.400260	1.9	1.007
25	0.453671	2.403701	1.8	1.006
26	0.457768	2.406079	1.7	1.005
27	0.461391	2.407401	1.6	1.004
28	0.464568	2.407676	1.5	1.003
29	0.467321	2.406901	1.4	1.002
30	0.469671	2.405076	1.3	1.001
31	0.471638	2.402211	1.2	1.000
32	0.473231	2.398311	1.1	0.999
33	0.474471	2.393376	1.0	0.998
34	0.475378	2.387401	0.9	0.997
35	0.475961	2.380391	0.8	0.996
36	0.476249	2.372346	0.7	0.995
37	0.476251	2.363276	0.6	0.994
38	0.475988	2.353201	0.5	0.993
39	0.475481	2.342131	0.4	0.992
40	0.474741	2.330076	0.3	0.991
41	0.473788	2.317031	0.2	0.990
42	0.472641	2.303001	0.1	0.989
43	0.471311	2.288076	0.0	0.988
44	0.469815	2.272256	0.0	0.987
45	0.468171	2.255541	0.0	0.986
46	0.466391	2.237931	0.0	0.985
47	0.464488	2.219426	0.0	0.984
48	0.462471	2.199926	0.0	0.983
49	0.460351	2.179431	0.0	0.982
50	0.458138	2.157941	0.0	0.981
51	0.455841	2.135456	0.0	0.980
52	0.453471	2.111976	0.0	0.979
53	0.451038	2.087501	0.0	0.978
54	0.448551	2.062031	0.0	0.977
55	0.446031	2.035566	0.0	0.976
56	0.443488	2.008101	0.0	0.975
57	0.440931	1.979636	0.0	0.974
58	0.438371	1.950171	0.0	0.973
59	0.435815	1.919706	0.0	0.972
60	0.433271	1.888241	0.0	0.971

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.0422579	0.548159	2701.2	2.000
1	0.098653	39.740879	154.1	1.412
2	0.1463224	14.183990	50.2	1.256
3	0.185675	8.528789	26.8	1.184
4	0.218441	6.276507	17.3	1.143
5	0.246128	5.103163	13.3	1.117
6	0.269863	4.391425	10.6	1.099
7	0.290472	3.915725	8.9	1.085
8	0.308568	3.575836	7.7	1.075
9	0.324609	3.320913	6.8	1.066
10	0.3351858	2.963743	6.6	1.054
12	0.374215	2.724981	4.9	1.046
14	0.392955	2.553694	4.3	1.039
16	0.408933	2.424536	3.9	1.034
18	0.422747	2.323477	3.6	1.030
20	0.4350387	2.145864	3.1	1.024
25	0.471233	2.029365	2.8	1.019
30	0.487588	1.947810	2.5	1.016
35	0.500800	1.836526	2.4	1.014
40	0.511718	1.838915	2.2	1.012
50	0.520905	1.800806	2.1	1.011
55	0.528730	1.769578	2.0	1.009
60	0.535523	1.743501	2.0	1.008

CONFIDENCE LEVEL = .975  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	4052.180699	*	2.000
2	0.0	98.502513	*	1.419
3	0.0	34.116222	*	1.275
4	0.0	21.197690	*	1.214
5	0.0	16.258177	*	1.182
6	0.0	13.745023	*	1.163
7	0.0	12.246383	*	1.150
8	0.0	11.258624	*	1.140
9	0.0	10.561431	*	1.133
10	0.0	10.044289	*	1.128
11	0.0	9.330212	*	1.120
12	0.0	8.861593	*	1.111
14	0.0	8.5320965	*	1.111
16	0.0	8.285420	*	1.108
20	0.0	8.095958	*	1.106
25	0.0	7.769798	*	1.102
30	0.0	7.562476	*	1.099
35	0.0	7.419117	*	1.098
40	0.0	7.314100	*	1.096
45	0.0	7.233868	*	1.093
50	0.0	7.170577	*	1.094
55	0.0	7.119377	*	1.094
60	0.0	7.077106	*	1.093

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.0	4999.504833	2083332.3	1.999
3	0.000001	99.009875	10126.6	1.411
4	0.000007	30.830314	1507.1	1.239
5	0.000018	18.017949	1556.9	1.192
6	0.000033	13.294860	1500.2	1.156
7	0.000050	10.948121	1198.4	1.134
8	0.000068	9.571924	1146.7	1.118
9	0.000093	8.676115	116.7	1.108
10	0.000101	8.049918	97.6	1.099
11	0.000117	7.589017	84.5	1.093
12	0.000145	6.958097	68.0	1.084
14	0.000169	6.547830	58.2	1.078
16	0.000190	6.260331	51.7	1.073
18	0.000208	6.047928	47.2	1.070
20	0.000223	5.884717	43.8	1.067
25	0.000234	5.605207	38.4	1.062
30	0.000277	5.428543	35.1	1.059
35	0.000294	5.306860	33.0	1.057
40	0.000308	5.217978	31.4	1.055
45	0.000320	5.150223	30.3	1.054
50	0.000329	5.096867	29.4	1.053
55	0.000337	5.053766	28.7	1.052
60	0.000344	5.018222	28.1	1.052

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.0000021	5403.574256	48637.1	1.598
4	0.0000361	99.292359	792.7	1.405
5	0.001038	29.573095	175.4	1.248
6	0.001817	16.810011	73.7	1.178
7	0.002574	12.176570	47.7	1.139
8	0.003264	9.857409	33.8	1.115
9	0.003878	8.570338	26.3	1.099
10	0.004419	7.711076	21.7	1.087
11	0.004895	7.112881	18.7	1.079
12	0.005315	6.674023	16.5	1.072
14	0.006018	6.075437	13.7	1.062
16	0.006579	5.687655	12.0	1.056
18	0.007035	5.416653	10.8	1.051
20	0.007413	5.216853	10.0	1.048
25	0.007730	5.063576	9.4	1.045
30	0.008336	4.801597	8.3	1.040
35	0.008766	4.636364	7.7	1.037
40	0.009037	4.522719	7.3	1.035
45	0.009336	4.439795	6.9	1.033
50	0.009534	4.376629	6.7	1.032
55	0.009695	4.326919	6.5	1.031
60	0.009830	4.286781	6.4	1.030
	0.009943	4.253695	6.3	1.029

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.000314	5625.248802	15905.2	1.598
5	0.002513	99.500000	399.0	1.403
6	0.003519	28.909666	99.2	1.244
7	0.004355	16.616078	46.9	1.172
8	0.011013	11.568553	29.2	1.135
9	0.013231	9.321050	21.1	1.108
10	0.015126	8.016979	16.5	1.091
11	0.016731	7.174754	13.7	1.079
12	0.018135	6.589544	11.9	1.070
14	0.019366	6.160853	10.5	1.063
16	0.021364	5.777073	9.8	1.053
18	0.022931	5.499501	9.0	1.047
20	0.024139	4.935936	8.3	1.042
25	0.025231	4.741783	7.7	1.038
30	0.026030	4.592935	7.3	1.036
35	0.027709	4.338720	6.9	1.034
40	0.028855	4.178510	6.5	1.031
45	0.029705	4.063377	6.4	1.029
50	0.030360	3.988043	6.3	1.024
55	0.030880	3.926867	6.2	1.023
60	0.031300	3.878732	6.1	1.022
	0.031653	3.839872	6.0	1.021
	0.031948	3.807843	6.0	1.020

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.001188	5764.701727	10956.7	1.998
1	0.006517	99.625794	306.3	1.402
2	0.012640	28.480337	79.9	1.243
3	0.018166	15.737816	38.5	1.170
4	0.022876	11.170038	24.2	1.130
5	0.026841	8.941426	17.5	1.105
6	0.030186	7.651058	13.8	1.088
7	0.033026	6.818947	11.4	1.076
8	0.035459	6.241415	9.9	1.067
9	0.037561	5.818710	8.7	1.060
10	0.040999	5.243601	7.3	1.049
11	0.043685	4.871966	6.3	1.043
12	0.045837	4.612700	5.7	1.038
13	0.047597	4.421794	5.2	1.034
14	0.049062	4.275479	4.9	1.031
15	0.051833	4.025677	4.3	1.026
16	0.053782	3.868299	4.0	1.023
17	0.055225	3.760133	3.7	1.021
18	0.056337	3.681243	3.6	1.019
19	0.057219	3.621172	3.4	1.018
20	0.057936	3.573908	3.3	1.017
25	0.058530	3.535753	3.2	1.017
30	0.059031	3.504306	3.2	1.016

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.002537	5860.301334	3910.9	1.998
1	0.011443	99.699495	272.6	1.403
2	0.020713	28.174197	72.7	1.243
3	0.028792	15.436334	35.4	1.170
4	0.035567	10.885332	23.3	1.130
5	0.041221	8.669578	16.6	1.104
6	0.045969	7.383471	12.7	1.087
7	0.049990	6.563150	10.0	1.074
8	0.053429	5.990740	9.0	1.065
9	0.056399	5.572004	8.0	1.058
10	0.061254	5.002599	6.6	1.048
11	0.065048	4.634827	5.7	1.041
12	0.068089	4.378332	5.2	1.035
13	0.070577	4.189502	4.7	1.032
14	0.072650	4.044795	4.4	1.029
15	0.076577	3.797762	3.9	1.024
16	0.079341	3.642137	3.5	1.021
17	0.081391	3.535175	3.3	1.019
18	0.082977	3.457162	3.3	1.017
19	0.034227	3.397756	3.0	1.016
20	0.085248	3.351014	2.9	1.015
25	0.086094	3.313279	2.9	1.014
30	0.086807	3.282177	2.8	1.014

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.004292	0.835225	2.5800	1.5998
11	0.016570	0.743487	2.5800	1.4038
15	0.028740	0.671147	2.5800	1.2444
19	0.039149	0.614758	2.5800	1.1711
23	0.047812	0.569877	2.5800	1.1044
27	0.055019	0.530336	2.5800	1.0877
31	0.061062	0.498105	2.5800	1.0744
35	0.066181	0.471688	2.5800	1.0657
39	0.070362	0.445462	2.5800	1.0477
43	0.074346	0.420001	2.5800	1.0399
47	0.078054	0.401257	2.5800	1.0300
51	0.081539	0.386893	2.5800	1.0222
55	0.084923	0.372370	2.5800	1.0177
59	0.088247	0.358692	2.5800	1.0155
63	0.091514	0.346295	2.5800	1.0144
67	0.094737	0.336257	2.5800	1.0133
71	0.097914	0.328523	2.5800	1.0122
75	0.101045	0.322653	2.5800	1.0111
79	0.104130	0.318009	2.5800	1.0100
83	0.107170	0.314261	2.5800	1.0099
87	0.110174	0.311171	2.5800	1.0098
91	0.113143	0.308516	2.5800	1.0097

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.006111	0.648483	2.5800	1.5998
12	0.021152	0.770520	2.5800	1.4044
16	0.036278	0.763659	2.5800	1.2444
20	0.048776	0.633180	2.5800	1.1711
24	0.059123	0.504054	2.5800	1.1044
28	0.067777	0.304779	2.5800	1.0877
32	0.074933	0.035388	2.5800	1.0744
36	0.081078	0.213556	2.5800	1.0657
40	0.086325	0.652475	2.5800	1.0477
44	0.090863	0.239589	2.5800	1.0399
48	0.094800	0.676039	2.5800	1.0300
52	0.098141	0.312815	2.5800	1.0222
56	0.100883	0.055518	2.5800	1.0177
60	0.103127	0.873037	2.5800	1.0155
64	0.104945	0.730119	2.5800	1.0144
68	0.106208	0.486088	2.5800	1.0133
72	0.107043	0.332298	2.5800	1.0122
76	0.107566	0.322660	2.5800	1.0111
80	0.107921	0.149415	2.5800	1.0100
84	0.108167	0.090653	2.5800	1.0099
88	0.108357	0.044407	2.5800	1.0098
92	0.108512	0.007064	2.5800	1.0097
96	0.108641	0.976280	2.5800	1.0096

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.007937	24.108796	7365.5	1.999
1	0.026137	99.787589	250.3	1.405
2	0.043176	27.619167	68.3	1.245
3	0.057509	14.891651	33.4	1.172
4	0.069376	10.370051	21.0	1.131
5	0.079245	8.176346	15.2	1.105
6	0.087534	6.910858	11.9	1.087
7	0.094573	6.056814	9.8	1.074
8	0.100612	5.532780	8.4	1.065
9	0.105845	5.120441	7.4	1.057
10	0.111448	4.560030	6.0	1.046
11	0.112121	4.198180	5.2	1.039
12	0.112668	3.945819	4.6	1.033
13	0.113117	3.760005	4.2	1.029
14	0.113493	3.617579	3.9	1.026
15	0.113721	3.473332	3.6	1.021
16	0.113901	3.220986	3.4	1.018
17	0.114053	3.155524	3.3	1.015
18	0.114183	3.038361	3.2	1.014
19	0.114293	2.979926	3.1	1.013
20	0.114383	2.933772	3.0	1.012
25	0.115983	2.896497	2.8	1.011
30	0.116117	2.865765	2.7	1.010
35			2.6	
40			2.5	
45			2.4	
50			2.4	
55			2.4	
60			2.4	

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.009691	57.513905	7265.9	1.999
1	0.030365	99.798607	250.4	1.405
2	0.049416	27.500671	68.3	1.246
3	0.065383	14.775712	33.5	1.173
4	0.078599	10.260204	21.1	1.133
5	0.089601	8.070963	15.2	1.106
6	0.098855	6.808575	11.9	1.088
7	0.106725	5.996725	9.8	1.075
8	0.113348	5.434287	8.4	1.065
9	0.119339	5.023140	7.4	1.057
10	0.125903	4.464349	6.0	1.046
11	0.133666	4.103515	5.2	1.039
12	0.142833	3.851327	4.6	1.033
13	0.147929	3.666479	4.2	1.029
14	0.152199	3.524384	3.9	1.026
15	0.160365	3.281637	3.6	1.021
16	0.166180	3.128549	3.4	1.018
17	0.170531	3.023229	3.3	1.015
18	0.173908	2.946349	3.2	1.014
19	0.176605	2.887763	3.1	1.013
20	0.178809	2.841638	3.0	1.012
25	0.180644	2.804331	2.8	1.011
30	0.182194	2.773658	2.7	1.010
35			2.6	
40			2.5	
45			2.4	
50			2.4	
55			2.4	
60			2.4	

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.012884	61.08.009092	72.34.4	1.999
1	0.037693	99.810601	253.3	1.407
2	0.060096	27.317994	69.3	1.248
3	0.078813	14.597160	33.3	1.175
4	0.094321	10.090877	21.3	1.134
5	0.107263	7.908310	15.3	1.107
6	0.118133	6.650503	11.3	1.089
7	0.127501	5.841848	9.8	1.076
8	0.135536	5.281659	8.4	1.066
9	0.142531	4.872232	7.4	1.058
10	0.148410	4.531566	6.0	1.047
11	0.153289	3.956159	5.3	1.039
12	0.157074	3.505305	4.5	1.033
13	0.160724	3.152049	4.1	1.029
14	0.164222	3.378759	3.8	1.026
15	0.167511	3.136468	3.5	1.020
16	0.170699	2.983335	3.3	1.017
17	0.173724	2.878244	3.1	1.014
18	0.176624	2.801337	2.9	1.013
19	0.179322	2.742701	2.8	1.011
20	0.181822	2.696514	2.7	1.010
21	0.184123	2.659193	2.6	1.009
22	0.186235	2.628407	2.5	1.009

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.015625	61.44.357078	72.99.9	1.999
1	0.043691	99.815818	257.7	1.407
2	0.068778	27.183855	70.7	1.248
3	0.089706	14.466148	34.3	1.176
4	0.107075	9.966485	21.7	1.135
5	0.121611	7.733639	15.5	1.108
6	0.133913	6.534018	12.1	1.090
7	0.144442	5.727345	9.3	1.077
8	0.153548	5.168924	8.3	1.067
9	0.161498	4.760549	7.4	1.059
10	0.167470	4.205356	6.0	1.047
11	0.173522	3.846608	5.1	1.039
12	0.179381	3.596174	4.5	1.034
13	0.184947	3.421353	4.1	1.029
14	0.190297	3.269967	3.8	1.026
15	0.195360	3.027701	3.5	1.020
16	0.200097	2.874641	3.3	1.017
17	0.204329	2.769180	3.1	1.014
18	0.208137	2.692096	2.9	1.012
19	0.211520	2.633291	2.8	1.011
20	0.214463	2.586949	2.7	1.010
21	0.216986	2.549486	2.6	1.009
22	0.219195	2.518572	2.5	1.009

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





16 DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.017958	6171.768967	7400.4	1.999
2	0.048656	99.817923	262.3	1.408
3	0.075909	27.081249	72.0	1.250
4	0.098645	14.365965	35.1	1.177
5	0.117552	9.871263	22.0	1.136
6	0.133415	7.696911	15.8	1.109
7	0.146876	6.444613	12.3	1.091
8	0.158429	5.639700	10.1	1.078
9	0.168446	5.082146	8.6	1.067
10	0.177213	4.674510	7.5	1.060
11	0.191828	4.120198	6.1	1.048
12	0.203522	3.761876	5.2	1.040
13	0.213095	3.511628	4.6	1.034
14	0.221077	3.327099	4.1	1.030
15	0.227837	3.185452	3.8	1.026
16	0.234093	3.043978	3.5	1.020
17	0.239042	2.918964	3.2	1.017
18	0.243505	2.803904	2.9	1.014
19	0.247538	2.696365	2.7	1.012
20	0.251150	2.606330	2.5	1.011
21	0.254394	2.530094	2.4	1.010
22	0.257233	2.463338	2.3	1.009
23	0.259715	2.403226	2.2	1.008

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

13 DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.019945	5193.177349	7509.9	1.999
2	0.052801	99.818515	266.7	1.409
3	0.081842	27.080266	73.3	1.251
4	0.106082	14.286897	35.7	1.178
5	0.126277	9.796041	22.4	1.137
6	0.143260	7.624367	16.0	1.110
7	0.157706	6.373825	12.3	1.092
8	0.170133	5.570070	10.2	1.078
9	0.180934	5.013288	8.7	1.068
10	0.190407	4.606170	7.6	1.060
11	0.206244	4.052431	6.1	1.048
12	0.218965	3.694336	5.2	1.040
13	0.229411	3.444137	4.6	1.034
14	0.238147	3.259562	4.2	1.030
15	0.245564	3.117817	3.8	1.026
16	0.251992	3.00009	3.5	1.020
17	0.257043	2.821318	3.2	1.017
18	0.261525	2.625250	2.9	1.014
19	0.265373	2.537616	2.7	1.012
20	0.268973	2.478321	2.5	1.011
21	0.272396	2.431544	2.4	1.010
22	0.275466	2.393696	2.3	1.009
23	0.278044	2.362439	2.2	1.008

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
20	0.021648	0.360348	7618.6	1.9999
21	0.056303	0.818350	270.9	1.4009
22	0.086841	26.934742	74.4	1.2531
23	0.112335	14.223919	36.3	1.1799
24	0.133363	9.725123	22.7	1.1388
25	0.151577	7.565561	16.3	1.1111
26	0.166869	6.316586	12.6	1.0939
27	0.180051	5.513516	10.3	1.0799
28	0.191531	4.957309	8.8	1.0699
29	0.201618	4.550563	7.7	1.0611
30	0.211853	4.232154	6.8	1.0535
31	0.221853	3.997200	6.2	1.0471
32	0.232215	3.639209	5.3	1.0355
33	0.243377	3.388976	4.6	1.0300
34	0.252785	3.204298	4.2	1.0271
35	0.260792	3.062214	3.8	1.0217
36	0.276419	2.819207	3.3	1.0144
37	0.287827	2.665512	3.0	1.0122
38	0.296531	2.558699	2.7	1.0100
39	0.303399	2.480752	2.5	1.0099
40	0.308945	2.421182	2.3	1.0098
41	0.313530	2.374165	2.2	1.0098
42	0.317333	2.336105	2.1	1.0098
43	0.320662	2.304661	2.1	1.0098

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
25	0.024978	0.412052	7865.0	2.0000
26	0.063035	0.816674	279.7	1.4100
27	0.096430	26.815167	76.8	1.2530
28	0.124379	14.106135	37.4	1.1798
29	0.147789	9.623798	23.4	1.1381
30	0.167597	7.457953	16.8	1.1111
31	0.184535	6.211133	13.0	1.0934
32	0.199335	5.409748	10.6	1.0799
33	0.212071	4.854464	9.0	1.0699
34	0.223395	4.448273	7.9	1.0611
35	0.242478	3.895366	6.4	1.0535
36	0.257937	3.537353	5.4	1.0471
37	0.270782	3.286866	4.7	1.0355
38	0.281592	3.101819	4.2	1.0300
39	0.290835	2.959514	3.8	1.0271
40	0.309005	2.715214	3.3	1.0217
41	0.322387	2.560109	3.0	1.0144
42	0.332668	2.452782	2.7	1.0122
43	0.340823	2.374045	2.5	1.0100
44	0.347455	2.313787	2.3	1.0099
45	0.352930	2.266166	2.2	1.0098
46	0.357585	2.227575	2.1	1.0098
47	0.361546	2.195661	2.1	1.0098

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.027391	2.200733	8068.1	2.000
1	0.067838	99.814620	286.7	1.411
2	0.103258	26.734303	78.7	1.254
3	0.132955	14.027123	38.3	1.182
4	0.157898	9.548375	24.0	1.141
5	0.179071	7.384934	17.2	1.114
6	0.197255	6.139603	13.3	1.096
7	0.213046	5.339112	10.9	1.082
8	0.226895	4.784347	9.2	1.072
9	0.239148	4.378432	8.1	1.063
10	0.259882	3.825641	6.5	1.051
11	0.276736	3.467433	5.5	1.043
12	0.290856	3.216605	4.8	1.037
13	0.302766	3.051152	4.3	1.032
14	0.312298	2.888415	4.0	1.028
15	0.323196	2.643049	3.3	1.022
16	0.343136	2.436974	3.0	1.017
17	0.359771	2.378796	2.7	1.015
18	0.369004	2.299317	2.5	1.012
19	0.376543	2.238411	2.4	1.011
20	0.382817	2.190223	2.3	1.010
21	0.388123	2.151131	2.2	1.009
22	0.392659	2.118773	2.1	1.008

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
35	0.029213	2.777.0922386	8234.2	2.000
1	0.071428	99.812720	292.3	1.411
2	0.108356	26.675992	80.3	1.254
3	0.139365	13.970121	69.4	1.183
4	0.165467	9.493907	24.4	1.141
5	0.187677	7.332140	17.5	1.115
6	0.206799	6.087821	13.6	1.096
7	0.223445	5.287917	11.2	1.083
8	0.238079	4.733470	9.4	1.072
9	0.251057	4.327697	8.2	1.064
10	0.273083	3.774880	6.6	1.052
11	0.291117	3.416427	5.6	1.044
12	0.306180	3.165254	4.9	1.037
13	0.318974	2.979413	4.4	1.032
14	0.329988	2.836277	4.0	1.029
15	0.351865	2.589938	3.4	1.022
16	0.368188	2.432987	3.0	1.018
17	0.380866	2.324040	2.7	1.015
18	0.391012	2.243890	2.5	1.013
19	0.399326	2.182396	2.4	1.011
20	0.406267	2.133690	2.3	1.010
21	0.412152	2.094140	2.2	1.009
22	0.417209	2.061373	2.1	1.008

CONFIDENCE LEVEL=.99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
40	0.030633	6288.284367	8370.7	2.000
1	0.074208	99.811069	296.8	1.412
2	0.112304	26.631961	81.4	1.255
3	0.144331	13.927062	39.7	1.183
4	0.171340	9.452729	24.8	1.142
5	0.194365	7.292191	17.7	1.116
6	0.214228	6.048601	13.8	1.094
7	0.231553	5.249107	11.3	1.084
8	0.246812	4.694865	9.9	1.075
9	0.260368	4.289165	8.9	1.065
10	0.283438	3.736261	8.3	1.055
11	0.302383	3.377558	6.7	1.044
12	0.318237	3.126062	5.0	1.038
14	0.331776	2.939869	4.5	1.033
16	0.343445	2.796373	4.1	1.029
18	0.366711	2.549168	3.4	1.022
20	0.384157	2.391438	3.0	1.017
25	0.397763	2.281805	2.7	1.015
30	0.408691	2.201054	2.5	1.013
35	0.417674	2.139031	2.4	1.011
40	0.425194	2.089859	2.3	1.010
45	0.431585	2.049894	2.2	1.009
50	0.437088	2.016757	2.1	1.008

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
45	0.031771	6297.002951	8484.4	2.000
1	0.076424	99.809656	300.6	1.412
2	0.115448	26.597540	82.4	1.255
3	0.148291	13.893391	40.2	1.183
4	0.176027	9.420507	25.5	1.142
5	0.199709	7.260908	18.0	1.116
6	0.220172	6.017867	13.9	1.094
7	0.238047	5.218670	11.4	1.084
8	0.253845	4.664566	9.7	1.074
9	0.267845	4.258902	8.4	1.065
10	0.291770	3.705887	6.8	1.055
11	0.311471	3.346947	5.7	1.045
12	0.328018	3.095157	5.0	1.038
14	0.342143	2.908649	4.5	1.033
16	0.354361	2.764834	4.1	1.029
18	0.378801	2.516862	3.4	1.022
20	0.397204	2.358441	3.0	1.017
25	0.411609	2.248199	2.7	1.015
30	0.422321	2.166911	2.5	1.013
35	0.432780	2.104414	2.4	1.011
40	0.440807	2.054821	2.3	1.010
45	0.447645	2.014482	2.2	1.009
50	0.453542	1.981010	2.1	1.008

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
50	0.032701	03.986479	8579.7	2.000
1	0.0782230	99.808447	303.7	1.412
2	0.118011	26.569896	83.3	1.256
3	0.151521	13.866339	40.6	1.184
4	0.179853	9.394606	25.4	1.143
5	0.204076	7.235749	18.2	1.117
6	0.225033	5.993133	14.1	1.098
7	0.243365	5.194161	11.5	1.085
8	0.259556	4.640153	9.8	1.074
9	0.273980	4.234502	8.5	1.066
10	0.298620	3.681370	6.9	1.054
11	0.318955	3.322210	5.8	1.045
12	0.336071	3.070156	5.1	1.039
13	0.350709	2.833367	4.6	1.034
14	0.363394	2.739269	4.2	1.030
15	0.388838	2.490618	3.5	1.023
16	0.408068	2.331584	3.1	1.016
17	0.423167	2.220799	2.8	1.013
18	0.435366	2.139031	2.6	1.010
19	0.445443	2.076109	2.4	1.007
20	0.455918	2.026133	2.3	1.006
21	0.461151	1.985461	2.2	1.009
22	0.467400	1.951684	2.1	1.008

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
55	0.033476	309.705964	8661.5	2.000
1	0.079730	99.807408	306.3	1.412
2	0.120140	26.547206	84.0	1.256
3	0.154204	13.844132	40.9	1.185
4	0.183035	9.373334	25.6	1.144
5	0.207711	7.215074	18.3	1.117
6	0.229034	5.972799	14.2	1.099
7	0.247796	5.174001	11.6	1.085
8	0.264347	4.620062	9.9	1.075
9	0.279104	4.214412	8.6	1.066
10	0.304351	3.661162	6.9	1.054
11	0.325223	3.301802	5.9	1.045
12	0.342827	3.049512	5.1	1.039
13	0.357906	2.862473	4.6	1.034
14	0.370933	2.718123	4.2	1.030
15	0.397307	2.468869	3.5	1.023
16	0.417257	2.309290	3.1	1.019
17	0.432965	2.198019	2.8	1.016
18	0.445686	2.115821	2.6	1.014
19	0.456217	2.052517	2.4	1.012
20	0.465091	2.002204	2.3	1.010
21	0.472677	1.961220	2.2	1.009
22	0.479241	1.927166	2.1	1.008

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.034131	6314.476115	8732.6	2.000
55	0.080995	99.806508	308.6	1.412
50	0.121935	26.528250	84.6	1.256
45	0.156470	13.825574	41.2	1.185
40	0.185722	9.355551	25.8	1.144
35	0.210763	7.197785	18.5	1.118
30	0.232509	5.955786	14.3	1.099
25	0.251552	5.157126	11.7	1.085
20	0.268405	4.603238	9.9	1.075
15	0.283447	4.197582	8.7	1.067
10	0.309215	3.644219	7.0	1.054
5	0.330555	3.284677	5.9	1.046
0	0.348576	3.032175	5.2	1.039
	0.364037	2.844913	4.6	1.035
	0.377474	2.700338	4.2	1.031
	0.404548	2.450546	3.5	1.024
	0.425132	2.290479	3.1	1.019
	0.441577	2.178773	2.8	1.016
	0.454562	2.096188	2.6	1.014
	0.465499	2.032538	2.4	1.012
	0.474729	1.981916	2.3	1.011
	0.482633	1.940652	2.2	1.009
	0.489481	1.906347	2.1	1.009

CONFIDENCE LEVEL = .99  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0	0.722709	*	2.000
2	0.0	0.501253	*	1.417
3	0.0	0.351957	*	1.269
4	0.0	0.332772	*	1.207
5	0.0	0.332781	*	1.173
6	0.0	0.324996	*	1.153
7	0.0	0.235558	*	1.139
8	0.0	0.688199	*	1.130
9	0.0	0.613609	*	1.123
10	0.0	0.826470	*	1.117
12	0.0	0.754230	*	1.109
14	0.0	0.060253	*	1.104
16	0.0	0.575458	*	1.100
18	0.0	0.218037	*	1.097
20	0.0	0.943935	*	1.095
25	0.0	0.475312	*	1.091
30	0.0	0.179677	*	1.088
35	0.0	0.976295	*	1.086
40	0.0	0.827859	*	1.085
45	0.0	0.714771	*	1.084
50	0.0	0.625758	*	1.083
55	0.0	0.553876	*	1.083
60	0.0	0.494617	*	1.082

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.0	0.499960	*	3.000
3	0.000000	0.004792	4.735.2	2.412
4	0.000000	0.806583	4.631.5	2.260
5	0.000003	0.293549	1.524.0	2.099
6	0.000007	0.324812	1.577.8	1.956
7	0.000011	0.556496	4.71.7	1.833
8	0.000015	0.417542	3.34.1	1.707
9	0.000019	0.057007	2.57.3	1.609
10	0.000024	0.121169	2.09.6	1.533
12	0.000028	0.443157	7.77.7	1.493
14	0.000036	0.527040	3.8.5	1.483
16	0.000043	0.999992	1.33.7	1.477
18	0.000049	0.532925	0.01.1	1.473
20	0.000054	0.234552	90.9	1.469
25	0.000059	0.005688	83.5	1.466
30	0.000069	0.629381	7.7.7	1.462
35	0.000076	0.376543	64.7	1.459
40	0.000082	0.210191	60.1	1.456
45	0.000085	0.089153	6.9.9	1.455
50	0.000093	0.997166	5.4.5	1.454
55	0.000096	0.924893	5.2.6	1.453
60	0.000098	0.866619	5.1.2	1.453
		0.813639	50.0	1.451

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

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DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.000005	21614.963419	194551.5	.9999
4	0.000128	199.272873	1879.1	.409
5	0.000416	47.560806	346.6	.253
6	0.000778	24.350458	441.1	.88
7	0.001150	16.621237	800.4	.42
8	0.001503	13.003806	54.6	.18
9	0.001825	10.975504	44.3	.00
10	0.002116	9.690348	33.0	.09
11	0.002377	8.811663	23.0	.08
12	0.002610	8.176003	14.4	.07
13	0.003007	7.322087	9.8	.06
14	0.003329	6.777497	7.7	.05
15	0.003594	6.401174	5.5	.05
16	0.003806	6.126072	3.3	.04
17	0.004004	5.916425	2.2	.04
18	0.004366	5.561009	1.0	.03
19	0.004626	5.328737	.9	.03
20	0.004831	5.186370	.9	.03
21	0.004973	5.076488	.8	.03
22	0.005095	4.992684	.8	.03
23	0.005195	4.926899	.8	.03
24	0.005278	4.873393	.8	.03
25	0.005348	4.830275	.8	.03

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.000113	22500.420349	53762.4	.999
5	0.000235	199.499999	799.0	.407
6	0.000293	46.380309	69.3	.248
7	0.000475	23.320401	73.6	.176
8	0.000633	17.13119	43.5	.336
9	0.000782	11.798337	20.2	.09
10	0.000907	9.99392	13.9	.08
11	0.001015	8.952582	10.8	.07
12	0.001110	8.101938	8.9	.06
13	0.001193	7.487300	7.4	.05
14	0.001263	6.664620	6.6	.04
15	0.001329	6.140840	5.8	.04
16	0.001393	5.779499	5.7	.04
17	0.001460	5.515681	5.0	.04
18	0.001538	5.314829	4.7	.03
19	0.001604	4.974728	4.6	.03
20	0.001663	4.762350	4.5	.03
21	0.001718	4.617286	4.5	.03
22	0.001780	4.511948	4.5	.03
23	0.001863	4.432208	4.5	.03
24	0.001924	4.369280	4.5	.03
25	0.001972	4.318751	4.5	.03
26	0.002010	4.277180	4.7	.03

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.000592	0.279255	31.32.31	0.999
10	0.003838	0.652546	15.66.74	0.406
15	0.007839	0.633677	11.22.5	0.247
20	0.011697	0.663535	11.56.9	0.174
25	0.015029	0.130555	13.34.1	0.133
30	0.017886	0.645494	12.33.8	0.108
35	0.020329	0.697981	11.8.3	0.090
40	0.022426	0.473561	11.4.6	0.078
45	0.024237	0.639916	11.2.6	0.069
50	0.025813	0.038751	11.1.1	0.061
55	0.028411	0.234033	9.9.0	0.051
60	0.030436	0.722701	7.7.7	0.044
65	0.032105	0.370288	6.6.9	0.039
70	0.033459	0.113173	6.6.3	0.035
75	0.034591	0.917532	5.5.5	0.032
80	0.036742	0.586471	5.5.4	0.027
85	0.039261	0.379888	4.4.6	0.024
90	0.039390	0.238828	4.4.3	0.023
95	0.040262	0.136436	4.4.1	0.020
100	0.040954	0.058749	4.4.0	0.019
105	0.041518	0.997800	3.3.6	0.018
110	0.041936	0.948709	3.3.7	0.017
115	0.042331	0.908317	3.3.6	0.017

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.001472	0.084185	23.76.31	0.939
10	0.007440	0.746974	14.33.1	0.406
15	0.014033	0.110266	11.43.0	0.247
20	0.020018	0.201329	11.50.6	0.174
25	0.025124	0.713719	13.00.4	0.133
30	0.029448	0.261582	12.11.1	0.108
35	0.033111	0.342144	11.6.6	0.090
40	0.036255	0.133341	11.3.3	0.078
45	0.038956	0.111111	11.3.3	0.069
50	0.041300	0.713719	10.0.0	0.061
55	0.043133	0.923605	8.0.0	0.051
60	0.045139	0.423365	8.0.0	0.044
65	0.048193	0.076892	6.6.6	0.039
70	0.050635	0.824318	6.6.3	0.035
75	0.052645	0.692201	5.5.5	0.032
80	0.054323	0.306895	5.5.4	0.027
85	0.057576	0.204089	4.4.6	0.024
90	0.061442	0.965637	4.4.3	0.023
95	0.062736	0.865551	4.4.1	0.020
100	0.063766	0.788918	4.4.0	0.019
105	0.064605	0.729113	3.3.6	0.018
110	0.065300	0.680946	3.3.7	0.017
115	0.065837	0.641325	3.3.6	0.017

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.002664	0.874344	20549.6	0.999
1	0.011435	199.804905	446.33	0.407
2	0.020578	44.720608	105.32	0.247
3	0.028604	21.485785	47.88	0.174
4	0.035399	14.413047	32.88	0.133
5	0.041123	10.984951	23.00	0.106
6	0.045968	9.075570	17.55	0.089
7	0.050102	7.878047	14.22	0.076
8	0.053661	7.064095	12.00	0.066
9	0.056730	6.477975	9.93	0.059
10	0.061837	5.694538	7.75	0.048
11	0.065843	5.197440	6.64	0.040
12	0.069077	4.855167	5.77	0.035
13	0.071729	4.603618	5.23	0.031
14	0.073931	4.415826	4.83	0.028
15	0.075818	4.280948	4.51	0.026
16	0.077417	4.194627	4.27	0.023
17	0.078734	4.140960	4.09	0.020
18	0.079813	4.105877	3.95	0.017
19	0.080651	4.083521	3.83	0.016
20	0.081360	4.065221	3.73	0.015
25	0.083440	3.93960	3.53	0.013
30	0.085136	3.858770	3.38	0.011
35	0.086510	3.803521	3.28	0.010
40	0.087630	3.76487	3.20	0.009
45	0.088560	3.73941	3.14	0.008
50	0.089345	3.7229	3.09	0.007

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.004032	23927.932542	18938.4	0.999
1	0.015505	199.840875	428.6	0.407
2	0.026965	44.418560	102.1	0.248
3	0.036834	21.459221	46.33	0.174
4	0.045233	14.417500	32.88	0.133
5	0.052231	10.765247	23.00	0.107
6	0.058190	8.868069	17.55	0.089
7	0.063238	7.679083	14.22	0.076
8	0.067613	6.871372	12.00	0.066
9	0.071477	6.289978	9.93	0.058
10	0.074712	5.812169	7.75	0.047
11	0.077608	5.402043	6.64	0.040
12	0.080260	5.081272	5.77	0.034
13	0.082693	4.834005	5.23	0.030
14	0.084930	4.645962	4.83	0.027
15	0.086988	4.527938	4.51	0.022
16	0.088861	4.459584	4.27	0.019
17	0.090561	4.421320	4.09	0.016
18	0.092103	4.395987	3.95	0.014
19	0.093509	4.376281	3.83	0.013
20	0.094777	4.362816	3.73	0.011
25	0.099643	4.276931	3.53	0.009
30	0.101615	4.227693	3.38	0.008
35	0.104399	4.185695	3.28	0.007
40	0.106553	4.15331	3.20	0.006
45	0.108227	4.12816	3.14	0.005
50	0.109677	4.10843	3.09	0.004
55	0.111084	4.09128	3.04	0.003
60	0.112418	4.07631	3.00	0.002

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.005468	0.668129	18088.7	1.999
1	0.0194293	0.8633551	421.0	.408
2	0.0322933	1.177384	100.8	.248
3	0.044622	1.578352	46.0	.175
4	0.054374	1.934751	27.7	.133
5	0.062576	2.258446	19.4	.107
6	0.069518	2.570184	14.8	.089
7	0.075450	2.819525	12.0	.076
8	0.080566	3.016668	10.0	.066
9	0.085017	3.18935	8.8	.058
10	0.089237	3.367227	7.7	.047
11	0.093187	3.587785	6.0	.040
12	0.102897	3.941013	5.5	.034
13	0.106735	4.289349	4.8	.030
14	0.110048	4.610871	4.4	.027
15	0.112629	4.922882	3.8	.021
16	0.115073	5.256693	3.4	.018
17	0.117340	5.5353	3.0	.016
18	0.119464	5.83708	2.8	.013
19	0.121287	6.1617	2.6	.012
20	0.123038	6.51452	2.6	.010
21	0.124718	6.846126		
22	0.126297			

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.006901	0.233504	17629.5	1.999
1	0.023114	0.878014	418.0	.408
2	0.038544	1.980331	100.5	.248
3	0.051775	2.204450	45.9	.176
4	0.062752	2.929136	27.7	.134
5	0.072030	3.445544	19.4	.108
6	0.079899	3.865636	14.8	.089
7	0.086662	4.288661	12.0	.076
8	0.092429	4.689673	10.0	.066
9	0.097455	5.074345	8.8	.058
10	0.101587	5.447139	7.7	.047
11	0.105872	5.817401	6.0	.040
12	0.110319	6.185633	5.5	.034
13	0.114923	6.551700	4.8	.030
14	0.119687	6.915668	4.4	.027
15	0.124614	7.277337	3.8	.021
16	0.129707	7.635267	3.4	.018
17	0.134965	7.989314	3.0	.016
18	0.140396	8.339431	2.8	.013
19	0.145993	8.685800	2.6	.012
20	0.151757	9.028432	2.6	.010
21	0.157687			

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.009612	24429.191539	17294.1	.999
1	0.029663	199.893192	419.3	.409
2	0.048276	43.677685	101.2	.250
3	0.064072	20.937381	46.2	.177
4	0.077313	13.589999	27.8	.135
5	0.088462	10.223997	19.4	.109
6	0.097936	8.355666	14.8	.090
7	0.106035	7.186676	11.9	.077
8	0.113107	6.393438	10.1	.067
9	0.119261	5.822896	8.7	.059
10	0.124992	5.061080	7.0	.047
11	0.130364	4.573076	5.6	.040
12	0.134429	4.245394	5.2	.034
13	0.137498	4.003179	4.7	.030
14	0.139473	3.813779	4.3	.026
15	0.140634	3.506753	3.6	.021
16	0.140901	3.311974	3.2	.017
17	0.140760	3.178894	3.0	.015
18	0.139551	3.082233	2.8	.013
19	0.137159	3.008849	2.6	.012
20	0.133403	2.951242	2.5	.011
21	0.128615	2.904319	2.4	.010
22	0.122928	2.866613	2.4	.009

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.011202	24574.606753	17306.0	2.000
1	0.035117	199.899103	424.7	.409
2	0.056355	43.676221	102.7	.251
3	0.074395	20.93934	46.8	.178
4	0.089349	13.514716	28.2	.136
5	0.102035	10.063390	19.6	.110
6	0.112882	8.203119	14.9	.091
7	0.122199	7.037382	12.1	.078
8	0.129294	6.248776	10.1	.067
9	0.137387	5.681212	8.8	.060
10	0.149221	4.923413	7.0	.048
11	0.158704	4.442915	5.9	.040
12	0.166463	4.112096	5.2	.034
13	0.172931	3.870835	4.6	.030
14	0.178406	3.687263	4.3	.026
15	0.183900	3.576498	3.6	.021
16	0.196665	3.37679	3.2	.017
17	0.202459	3.049673	2.9	.014
18	0.206995	2.953234	2.7	.013
19	0.210644	2.879987	2.6	.011
20	0.213642	2.822465	2.5	.010
21	0.216149	2.776096	2.4	.009
22	0.218277	2.737922	2.3	.009

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.0014124	24684.2933764	17463.32	.000
1	0.0039797	199.5000830	433.3	.410
2	0.0063087	143.287208	104.3	.252
3	0.0082797	100.592740	47.6	.179
4	0.0099363	79.280761	28.6	.137
5	0.0113378	69.936960	19.9	.111
6	0.0125351	63.083057	15.5	.092
7	0.0135382	58.923910	12.3	.079
8	0.0144431	56.137668	10.0	.068
9	0.0151586	54.572271	8.9	.060
10	0.0157646	53.385955	7.7	.048
11	0.0162529	52.400889	6.9	.040
12	0.0167139	51.768387	6.2	.034
13	0.0171577	51.33332	5.6	.030
14	0.0175951	51.081479	5.2	.027
15	0.0180233	50.943904	4.9	.024
16	0.0184469	50.832506	4.7	.021
17	0.0188637	50.7779236	4.5	.019
18	0.0192760	50.721708	4.4	.017
19	0.0196815	50.675301	4.3	.016
20	0.0200845	50.637083	4.2	.015

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
13	0.0015943	24769.977525	17679.3	.000
1	0.0043705	199.500594	438.1	.410
2	0.0068746	143.254027	106.0	.252
3	0.0089938	100.475142	48.3	.180
4	0.0107780	79.175070	29.0	.138
5	0.0122907	69.838676	20.2	.111
6	0.0135861	63.989543	15.3	.093
7	0.0147065	60.833512	12.4	.079
8	0.0156846	58.049627	10.0	.069
9	0.0165458	55.485864	9.0	.061
10	0.0172922	53.733070	7.7	.049
11	0.0179136	52.55577	6.9	.041
12	0.0184200	51.936659	6.2	.035
13	0.0189293	51.686643	5.6	.030
14	0.0194361	51.503908	5.2	.027
15	0.0199435	51.394247	4.9	.024
16	0.0204617	51.300540	4.7	.021
17	0.0209817	51.267947	4.5	.019
18	0.0215033	51.271493	4.4	.017
19	0.0220269	51.269846	4.3	.016
20	0.0225436	51.2640304	4.2	.015
21	0.0230633	51.2594004	4.1	.014
22	0.0235745	51.255698	4.0	.013

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
20	0.017522	24838.744925	17907.3	2.000
21	0.047035	199.899433	444.6	..411
22	0.073551	143.046399	107.6	..253
23	0.096001	120.380078	49.1	..190
24	0.114931	103.089558	29.4	..139
25	0.131014	9.759082	20.5	..122
26	0.144815	7.913740	15.5	..094
27	0.156776	6.760349	12.5	..080
28	0.167240	5.978132	10.5	..070
29	0.176470	5.415637	9.1	..061
30	0.192015	4.664469	7.2	..049
31	0.204603	4.187905	6.0	..041
32	0.215012	3.859538	5.0	..035
33	0.223766	3.619851	4.7	..033
34	0.231234	3.437310	4.3	..032
35	0.234586	3.278220	3.6	..032
36	0.235657	3.34079	3.3	..031
37	0.236477	3.801377	3.3	..031
38	0.237125	3.704779	2.7	..027
39	0.237649	3.631304	2.5	..025
40	0.238083	3.573529	2.4	..024
45	0.238448	3.526903	2.3	..023
50	0.238759	3.488479	2.2	..022

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
25	0.020653	24963.044533	134662.3	2.000
26	0.053504	199.833239	459.1	..411
27	0.082855	143.085026	111.1	..254
28	0.107736	120.206748	50.6	..182
29	0.128794	102.933464	30.4	..140
30	0.146753	9.613605	21.1	..124
31	0.162239	7.775012	16.0	..095
32	0.175714	6.626200	12.9	..081
33	0.183755	5.846963	10.0	..071
34	0.198034	5.286642	9.3	..063
35	0.215786	4.538183	7.4	..051
36	0.230260	4.063082	6.2	..043
37	0.242301	3.735504	5.4	..036
38	0.252484	3.496223	4.8	..033
39	0.261211	3.328555	4.3	..030
40	0.278440	3.004283	3.6	..027
45	0.291177	2.810154	3.3	..025
50	0.300991	2.676980	3.0	..024
55	0.315145	2.579904	2.7	..023
60	0.322042	2.505974	2.5	..022
	0.324874	2.447780	2.4	..021
	0.328632	2.400770	2.3	..020
		2.361996	2.2	..019

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.022955	25046.271900	18943.6	2.0000
32	0.058167	199.891011	470.9	.4412
34	0.089535	42.717818	123.9	.2553
36	0.116177	20.089616	55.9	.1933
38	0.138783	12.827835	33.1	.1415
40	0.158129	9.515012	22.6	.1066
42	0.174856	7.680951	16.4	.0822
44	0.189462	6.534844	13.2	.0722
46	0.202333	5.757669	11.0	.0642
48	0.213376	5.198705	9.5	.0582
50	0.223320	4.451864	7.5	.0537
52	0.232434	3.977553	6.3	.0503
54	0.240774	3.650326	5.5	.0474
56	0.248333	3.411146	4.9	.0452
58	0.255035	3.233755	4.4	.0437
60	0.260883	3.091875	4.0	.0422
62	0.265939	2.972406	3.7	.0410
64	0.270333	2.870009	3.5	.0401
66	0.274173	2.783263	3.3	.0394
68	0.277466	2.711355	3.2	.0388
70	0.280211	2.651660	3.1	.0383
72	0.282428	2.601042	3.0	.0379
74	0.284117	2.558337	2.9	.0375
76	0.285289	2.522411	2.8	.0372
78	0.285944	2.492279	2.7	.0369
80	0.286095	2.466771	2.6	.0368

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
35	0.024708	25105.889564	19341.4	2.0000
37	0.061675	199.897328	480.4	.4412
39	0.094556	42.621396	126.2	.2553
41	0.122521	20.005180	55.9	.1933
43	0.146303	12.751612	33.7	.1415
45	0.166705	9.443788	22.0	.1066
47	0.184320	7.612752	16.7	.0822
49	0.199872	6.468769	13.4	.0722
51	0.213354	5.692945	11.2	.0642
53	0.225373	5.134896	9.7	.0582
55	0.234649	4.599099	7.7	.0537
57	0.241592	3.985242	6.4	.0503
59	0.247793	3.589753	5.5	.0474
61	0.253016	3.489500	4.9	.0452
63	0.257278	3.166411	4.5	.0437
65	0.260591	2.855914	4.1	.0422
67	0.262956	2.606224	3.7	.0410
69	0.264885	2.526287	3.5	.0401
71	0.266373	2.423198	3.3	.0394
73	0.267460	2.394102	3.2	.0388
75	0.268035	2.366279	3.1	.0383
77	0.268529	2.339771	3.0	.0379
79	0.268944	2.314111	2.9	.0375
81	0.269289	2.289411	2.8	.0372
83	0.269564	2.266771	2.7	.0369
85	0.269779	2.244622	2.6	.0368

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
40	0.026084	0.708994	1.9676.3	2.000
1	0.064404	1.99.884222	488.2	1.412
2	0.098459	42.550389	118.1	1.256
3	0.127457	12.9.941432	53.8	1.184
4	0.152161	4.2.694021	32.3	1.143
5	0.173397	1.9.389927	22.4	1.116
6	0.191840	7.561208	17.0	1.098
7	0.208018	6.418714	13.6	1.084
8	0.222336	5.643870	11.4	1.073
9	0.235109	5.086472	9.8	1.065
10	0.256957	4.341390	7.8	1.053
12	0.275000	3.867805	6.5	1.044
14	0.290186	3.540762	5.6	1.038
16	0.303167	3.301465	5.0	1.033
18	0.314407	3.118768	4.4	1.029
20	0.336908	3.007738	3.8	1.023
25	0.353860	2.611868	3.3	1.018
30	0.367127	2.476976	3.0	1.015
35	0.377811	2.378301	2.7	1.013
40	0.386611	2.302914	2.6	1.011
45	0.393931	2.243400	2.4	1.010
50	0.400273	2.195200	2.3	1.009
55	0.405687	2.155351	2.2	1.008
60				

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
45	0.027190	0.820268	1.9959.1	2.000
1	0.066537	1.99.882609	494.7	1.412
2	0.101573	42.494127	119.6	1.256
3	0.131404	12.9.891603	54.3	1.184
4	0.156851	4.2.648975	32.7	1.143
5	0.178759	1.9.347771	22.7	1.117
6	0.197818	7.520836	17.2	1.098
7	0.214564	6.379481	13.8	1.084
8	0.229407	5.605578	11.6	1.074
9	0.242666	5.048465	10.0	1.066
10	0.265403	4.303993	7.9	1.053
12	0.284230	3.830474	6.6	1.045
14	0.300116	3.503417	5.7	1.038
16	0.313729	3.264009	5.1	1.034
18	0.325540	3.081145	4.6	1.030
20	0.349226	2.769601	3.8	1.023
25	0.367222	2.573190	3.3	1.018
30	0.381325	2.437785	3.0	1.015
35	0.392720	2.338638	2.7	1.013
40	0.402132	2.262823	2.6	1.011
45	0.410044	2.202923	2.4	1.010
50	0.416794	2.154374	2.3	1.009
55	0.422623	2.114209	2.2	1.008
60				

CONFIDENCE LEVEL = .995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
50	0.028098	25213.584797	20201.00	2.0000
1	0.068370	1999.879399	5000.2	1.413
2	0.104126	42.448956	1221.00	1.257
3	0.134631	199.851584	555.1	1.195
4	0.160637	12.612780	333.00	1.144
5	0.183151	9.313877	222.9	1.117
6	0.202720	7.488359	177.4	1.099
7	0.219936	6.347902	144.0	1.085
8	0.235217	5.574377	111.7	1.074
9	0.248887	5.017838	100.1	1.066
10	0.272365	4.273643	80.0	1.054
11	0.291849	3.800326	66.6	1.045
12	0.303323	3.473227	55.5	1.039
13	0.322477	3.233699	45.5	1.034
14	0.333477	3.050673	40.6	1.030
15	0.335956	2.738646	33.3	1.026
16	0.378377	2.541738	30.3	1.023
17	0.393209	2.405862	25.0	1.020
18	0.405227	2.306283	22.2	1.018
19	0.415178	2.230077	20.0	1.016
20	0.423362	2.169923	18.2	1.014
21	0.430728	2.120952	17.3	1.013
22	0.436928	2.080495	16.2	1.012

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
55	0.028857	25236.488065	20407.2	2.0000
1	0.069855	1999.877515	5040.9	1.413
2	0.106227	42.441393	1222.1	1.257
3	0.137317	199.850938	555.6	1.195
4	0.163884	12.608300	333.4	1.144
5	0.186681	9.286603	222.2	1.099
6	0.206845	7.461668	177.5	1.085
7	0.224423	6.322636	144.1	1.074
8	0.240073	5.548374	111.8	1.066
9	0.254089	4.992630	100.0	1.054
10	0.278195	4.248723	80.0	1.046
11	0.298245	3.775467	66.7	1.039
12	0.315233	3.448311	55.3	1.034
13	0.329844	3.208663	45.2	1.030
14	0.342561	3.025483	40.7	1.024
15	0.368254	2.713010	33.9	1.019
16	0.387832	2.515647	30.4	1.016
17	0.403303	2.379342	25.0	1.014
18	0.415873	2.279370	22.8	1.012
19	0.426302	2.202205	20.6	1.010
20	0.435107	2.142226	18.5	1.009
21	0.442647	2.093060	17.2	1.008
22	0.449180	2.052335	16.2	1.008

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS





DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.029499	25255.590350	20533.6	2.000
1	0.071109	199.875894	508.9	1.413
2	0.108038	42.380935	123.0	1.257
3	0.139587	19.791297	56.1	1.185
4	0.166587	11.558221	33.6	1.144
5	0.189912	9.262756	23.3	1.118
6	0.210274	7.439342	17.7	1.099
7	0.228226	6.300207	14.2	1.086
8	0.244193	5.527525	11.9	1.075
9	0.258505	4.971519	10.3	1.067
10	0.283154	4.227836	8.1	1.055
11	0.303690	3.754615	6.8	1.046
12	0.321116	3.427396	5.9	1.040
13	0.336123	3.187633	5.2	1.035
14	0.349212	3.004308	4.7	1.031
15	0.375703	2.661426	3.9	1.024
16	0.395948	2.493648	3.4	1.019
17	0.411989	2.336952	3.1	1.016
18	0.425047	2.236620	2.8	1.014
19	0.435904	2.179720	2.6	1.012
20	0.445087	2.148852	2.5	1.010
25	0.452962	2.069415	2.4	1.009
30	0.459796	2.028443	2.3	1.009

CONFIDENCE LEVEL=.995  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.00	0.00	*	2.000
2	0.00	0.00	*	1.415
3	0.00	0.00	*	1.263
4	0.00	0.00	*	1.197
5	0.00	0.00	*	1.161
6	0.00	0.00	*	1.139
7	0.00	0.00	*	1.124
8	0.00	0.00	*	1.114
9	0.00	0.00	*	1.106
10	0.00	0.00	*	1.100
12	0.00	0.00	*	1.092
14	0.00	0.00	*	1.086
16	0.00	0.00	*	1.082
18	0.00	0.00	*	1.079
20	0.00	0.00	*	1.077
25	0.00	0.00	*	1.070
30	0.00	0.00	*	1.068
40	0.00	0.00	*	1.067
50	0.00	0.00	*	1.066
55	0.00	0.00	*	1.065
60	0.00	0.00	*	1.064

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.00	0.00	*	2.000
3	0.00	0.00	*	1.414
4	0.00	0.00	869.55.5	1.260
5	0.00	0.00	19407.3	1.193
6	0.00	0.00	671.4.9	1.164
7	0.00	0.00	6689.0	1.139
8	0.00	0.00	2402.3	1.114
9	0.00	0.00	771.1.3	1.106
10	0.00	0.00	331.5.5	1.096
12	0.00	0.00	1068.3	1.089
14	0.00	0.00	771.1.9	1.080
16	0.00	0.00	611.2.6	1.073
18	0.00	0.00	511.3.7	1.069
20	0.00	0.00	448.4	1.065
25	0.00	0.00	401.5	1.063
30	0.00	0.00	333.8.6	1.059
35	0.00	0.00	287.2.2	1.055
40	0.00	0.00	260.7	1.053
45	0.00	0.00	242.7	1.051
50	0.00	0.00	229.4	1.050
55	0.00	0.00	219.4	1.049
60	0.00	0.00	211.1.5	1.048

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.0	540379.303234	*	2.000
4	0.000011	999.238016	4004.6	1.413
5	0.000049	141.163960	1709.3	1.257
6	0.000103	56.223689	560.3	1.186
7	0.000173	33.753855	278.5	1.147
8	0.000241	23.753556	172.0	1.122
9	0.000307	18.822724	120.8	1.105
10	0.000370	15.880282	92.2	1.093
11	0.000429	13.952970	74.4	1.084
12	0.000483	12.604285	62.6	1.077
13	0.000578	10.856426	48.1	1.067
14	0.000659	9.782165	39.7	1.060
15	0.000727	9.059218	34.3	1.055
16	0.000786	8.541139	30.6	1.051
17	0.000836	8.152404	27.9	1.048
18	0.000936	7.505750	23.6	1.043
19	0.001010	7.009591	21.0	1.040
20	0.001066	6.642442	19.4	1.037
21	0.001110	6.350274	18.2	1.036
22	0.001146	6.103471	17.4	1.034
23	0.001175	6.039247	16.7	1.033
24	0.001200	6.001363	16.2	1.032
25	0.001221	6.227390	15.8	1.032

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.0	562499.577559	*	2.000
5	0.0000250	999.500002	3999.0	1.412
6	0.0000714	137.256871	588.3	1.254
7	0.0001255	53.565212	211.4	1.182
8	0.0001791	36.202708	110.9	1.142
9	0.0002290	25.035106	70.8	1.116
10	0.0002744	17.305908	50.6	1.098
11	0.0003151	14.497131	39.5	1.086
12	0.0003516	12.664228	32.3	1.076
13	0.0003842	11.335470	27.4	1.069
14	0.0004398	9.733836	22.3	1.058
15	0.0004850	8.722397	17.8	1.051
16	0.0005223	8.043557	15.4	1.046
17	0.0005536	7.558096	13.3	1.042
18	0.0005801	7.194436	12.6	1.039
19	0.0006314	6.590732	10.7	1.034
20	0.0006684	6.221714	9.6	1.031
21	0.0006962	5.973251	8.9	1.028
22	0.0007179	5.794725	8.3	1.027
23	0.0007353	5.660317	7.9	1.025
24	0.0007496	5.555506	7.6	1.024
25	0.0007614	5.471500	7.4	1.024
26	0.0007715	5.402674	7.2	1.023

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.0	576404.562282	*	2.000
1	0.0001136	999.727318	2339.8	.411
2	0.0002670	134.820709	375.2	.253
3	0.0004248	134.820709	375.2	.253
4	0.0005709	229.917534	40.4	.380
5	0.0007014	220.955341	75.3	.399
6	0.0008163	116.330774	48.3	.413
7	0.0009173	116.330774	35.3	.405
8	0.0010062	116.330774	27.6	.382
9	0.0010848	116.330774	22.6	.372
10	0.0011688	116.330774	19.3	.365
11	0.0012227	9.021212	15.0	.354
12	0.0013227	3.048301	12.5	.347
13	0.0014093	7.296382	10.9	.341
14	0.0014812	6.930791	9.7	.337
15	0.0015419	6.582338	8.9	.334
16	0.0016585	6.004741	7.5	.329
17	0.0017418	5.821522	6.7	.326
18	0.0018042	5.414979	6.2	.323
19	0.0018527	5.244684	5.8	.322
20	0.0018911	5.116341	5.5	.320
21	0.0019235	5.006655	5.3	.319
22	0.0019494	4.936625	5.2	.319
23	0.0019717	4.871074	5.0	.318

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.0	585937.109222	*	2.000
1	0.0002763	999.892087	1789.3	.411
2	0.0005818	133.243880	300.7	.253
3	0.0008738	133.243880	14.8	.379
4	0.0011533	220.95534	62.3	.399
5	0.0013682	220.95534	40.3	.380
6	0.0015678	116.330774	29.5	.405
7	0.0017411	116.330774	23.0	.382
8	0.0018935	116.330774	19.3	.372
9	0.0020271	9.021212	16.1	.365
10	0.0022501	3.048301	12.5	.354
11	0.0024281	7.296382	10.4	.347
12	0.0025732	6.942281	9.0	.341
13	0.0026935	6.489116	8.1	.337
14	0.0027947	6.150996	7.4	.334
15	0.0029888	5.890909	6.2	.329
16	0.0031273	5.624935	5.5	.326
17	0.0032310	5.019757	5.1	.323
18	0.0033114	4.854973	4.8	.320
19	0.0033756	4.731020	4.5	.319
20	0.0034230	4.634427	4.4	.317
21	0.0034717	4.557051	4.4	.316
22	0.0035085	4.493685	4.1	.315

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.0	592873.290010	#	2.000
1	0.004953	1000.003567	1546.7	.411
2	0.009706	131.913272	267.1	.253
3	0.014115	49.903171	103.1	.179
4	0.017983	28.371034	56.1	.137
5	0.021327	19.651673	36.7	.111
6	0.024215	15.194250	26.7	.092
7	0.026718	12.565743	20.8	.079
8	0.028900	10.858795	17.1	.069
9	0.030814	9.673330	14.5	.061
10	0.032406	8.150107	12.3	.050
11	0.033651	7.222010	10.4	.043
12	0.034534	6.601470	9.1	.037
13	0.035142	6.158985	8.1	.032
14	0.035511	5.828273	7.3	.030
15	0.035722	5.580793	6.6	.024
16	0.035803	4.947146	5.9	.020
17	0.035776	4.722954	4.9	.019
18	0.035651	4.562101	4.5	.017
19	0.035441	4.441132	4.0	.016
20	0.035178	4.346880	3.8	.015
21	0.034809	4.273390	3.7	.014
22	0.034374	4.209574	3.6	.013

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.0	598144.159612	#	2.000
1	0.007452	1000.077241	1423.6	.411
2	0.013923	130.963265	250.0	.253
3	0.019790	49.252330	97.2	.179
4	0.024882	27.865679	53.0	.137
5	0.029260	19.224486	34.6	.111
6	0.033028	14.814365	25.2	.092
7	0.036290	12.216455	19.7	.079
8	0.039131	10.032025	16.2	.069
9	0.041622	9.362920	13.7	.061
10	0.043777	8.613550	12.0	.050
11	0.045593	8.047722	10.6	.043
12	0.047093	7.533717	9.8	.037
13	0.048339	7.090192	8.8	.032
14	0.049396	6.719255	7.6	.030
15	0.050327	6.401783	6.8	.024
16	0.051153	6.138753	6.1	.020
17	0.051877	5.911010	5.5	.019
18	0.052500	5.714113	4.9	.017
19	0.053034	5.541556	4.5	.016
20	0.053493	5.391637	4.0	.015
21	0.053882	5.261340	3.8	.014
22	0.054214	5.147370	3.7	.013
23	0.054499	5.047340	3.6	.012

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.0	6.02284	*	2.000
1	0.010073	1000.0	1357.3	1.411
2	0.018194	130.0	241.0	1.253
3	0.025450	48.736806	94.0	1.190
4	0.031708	27.464107	51.4	1.138
5	0.037073	18.884575	33.6	1.111
6	0.041636	14.511733	24.4	1.092
7	0.045678	11.938383	19.0	1.079
8	0.049156	10.271187	15.6	1.068
9	0.052209	9.114753	13.2	1.060
10	0.057303	7.630684	10.3	1.049
11	0.061376	6.728009	8.5	1.041
12	0.064701	6.125150	7.3	1.036
13	0.067464	5.695629	6.5	1.031
14	0.069794	5.374806	5.9	1.028
15	0.074231	4.844085	4.9	1.022
16	0.077498	4.520887	4.3	1.019
17	0.079916	4.303812	3.9	1.017
18	0.081799	4.148111	3.6	1.015
19	0.083306	4.031041	3.5	1.013
20	0.084539	3.939340	3.3	1.012
25	0.085567	3.866301	3.3	1.012
30	0.086437	3.806998	3.1	1.011

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.0	6.05620	*	2.000
1	0.012692	1000.0	1320.7	1.411
2	0.022357	129.613477	236.2	1.253
3	0.030909	48.317132	92.4	1.180
4	0.038258	27.137216	50.5	1.138
5	0.044552	18.607480	33.0	1.111
6	0.049963	14.264774	24.0	1.092
7	0.054648	11.711256	18.7	1.079
8	0.058734	10.057958	15.3	1.068
9	0.062322	8.911737	13.0	1.060
10	0.066321	7.744156	10.6	1.049
11	0.070737	6.547828	8.7	1.041
12	0.07557	5.51158	7.1	1.035
13	0.080328	5.526456	6.3	1.031
14	0.083092	5.208768	5.7	1.028
15	0.088425	4.683831	4.7	1.022
16	0.092261	4.364211	4.2	1.018
17	0.095149	4.149558	3.8	1.016
18	0.097402	3.995600	3.5	1.014
19	0.099208	3.879842	3.3	1.013
20	0.100688	3.789664	3.2	1.012
25	0.101922	3.717444	3.1	1.011
30	0.102968	3.658311	3.0	1.010

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.0	610667.832302	1291.6	2.000
1	0.017660	1000.190679	1291.6	1.412
2	0.030061	128.685495	233.0	1.234
3	0.040915	47.675569	91.3	1.111
4	0.050214	26.636510	49.3	1.033
5	0.058176	18.182575	32.6	1.009
6	0.065033	13.885690	22.7	1.003
7	0.070931	11.362208	17.4	1.000
8	0.076180	9.722920	15.0	1.000
9	0.080738	8.559107	12.7	1.001
10	0.083437	7.749836	10.8	1.000
11	0.094616	6.269479	8.0	1.000
12	0.099691	5.682031	6.6	1.000
13	0.103931	5.263732	5.6	1.000
14	0.107525	4.953468	5.0	1.000
15	0.111449	4.712054	4.5	1.000
16	0.114993	4.530987	4.2	1.000
17	0.118233	4.400344	4.0	1.000
18	0.121266	4.309224	3.8	1.000
19	0.124073	4.244034	3.7	1.000
20	0.126673	4.195302	3.6	1.000
21	0.129073	4.158423	3.5	1.000
22	0.131287	4.130976	3.4	1.000
23	0.133348	4.110442	3.3	1.000
24	0.135274	4.095604	3.2	1.000
25	0.137071	4.086002	3.1	1.000
26	0.138746	4.081235	3.0	1.000

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.0	614302.749952	1290.5	2.000
1	0.021098	1000.203399	1290.5	1.412
2	0.036797	128.010151	233.8	1.234
3	0.049536	47.208075	91.7	1.111
4	0.060557	26.271137	50.1	1.033
5	0.069956	16.787240	32.7	1.009
6	0.078067	13.608170	22.7	1.003
7	0.085119	11.106330	17.4	1.000
8	0.091300	9.489142	15.0	1.000
9	0.096735	8.369570	12.7	1.001
10	0.101540	7.693500	10.8	1.000
11	0.105940	7.064133	9.0	1.000
12	0.110094	6.483380	8.0	1.000
13	0.113948	5.969569	6.6	1.000
14	0.117486	5.501775	5.6	1.000
15	0.120748	5.139249	5.0	1.000
16	0.123748	4.830413	4.5	1.000
17	0.126483	4.580591	4.2	1.000
18	0.128953	4.380114	4.0	1.000
19	0.131159	4.230976	3.8	1.000
20	0.133128	4.130976	3.7	1.000
21	0.134871	4.081235	3.6	1.000
22	0.136428	4.036002	3.5	1.000
23	0.137825	4.000000	3.4	1.000
24	0.139071	3.971235	3.3	1.000
25	0.140171	3.948442	3.2	1.000
26	0.141128	3.930976	3.1	1.000

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.0	617045.1922002	1300.4	2.000
1	0.025979	1000.206431	236.1	1.412
2	0.042610	127.496627	92.7	1.255
3	0.057055	46.852242	50.6	1.183
4	0.069435	25.992673	33.0	1.140
5	0.080070	17.635169	23.9	1.113
6	0.089267	11.396138	17.5	1.094
7	0.097235	10.910610	13.5	1.080
8	0.104328	9.304775	10.7	1.070
9	0.110560	8.193282	9.8	1.062
10	0.116086	7.770052	9.0	1.050
11	0.121931	5.906210	8.0	1.043
12	0.128003	5.330033	7.6	1.035
13	0.134311	4.919845	6.6	1.033
14	0.140863	4.613604	5.4	1.027
15	0.147633	4.410715	4.4	1.021
16	0.154649	4.317987	3.3	1.017
17	0.161904	4.359148	2.5	1.015
18	0.169405	4.421770	2.0	1.013
19	0.177134	4.509092	1.6	1.010
20	0.185081	4.617385	1.3	1.009
21	0.193235	4.738531	1.1	1.009
22	0.201578	4.866321	1.0	1.009

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
19	0.0	619187.694625	1300.4	2.000
1	0.029353	1000.204879	236.1	1.412
2	0.047620	127.493014	92.7	1.255
3	0.063470	46.572339	50.6	1.183
4	0.077067	25.773397	33.0	1.140
5	0.088770	17.448370	23.9	1.113
6	0.098914	11.228327	17.5	1.094
7	0.107776	10.075603	13.5	1.080
8	0.115557	9.159021	10.7	1.070
9	0.122249	8.053933	9.8	1.062
10	0.128342	7.639324	9.0	1.050
11	0.134377	5.780377	8.0	1.043
12	0.140870	5.208340	7.6	1.035
13	0.147639	4.800739	6.6	1.033
14	0.154641	4.496410	5.4	1.027
15	0.161903	4.399303	4.4	1.021
16	0.169405	4.368637	3.3	1.017
17	0.177134	4.480274	2.5	1.015
18	0.185081	4.632327	2.0	1.013
19	0.193235	4.822100	1.6	1.010
20	0.201578	5.034212	1.3	1.009
21	0.209901	5.264659	1.1	1.009
22	0.218369	5.507674	1.0	1.009

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
20	0.0	620907.6664787	*	2.000
1	0.0332290	10000.201168	1331.1	.413
2	0.0519556	126.767466	242.2	.256
3	0.0690122	46.346416	95.0	.133
4	0.083663	25.596252	55.5	.095
5	0.096295	17.297326	33.8	.071
6	0.107266	13.093435	24.4	.055
7	0.116872	10.630812	18.9	.042
8	0.125345	9.040973	15.4	.036
9	0.132874	7.940928	13.0	.033
10	0.140517	6.533123	11.0	.031
11	0.148223	5.678937	9.8	.028
12	0.156035	5.109248	8.8	.027
13	0.164885	4.703655	8.0	.026
14	0.172207	4.400796	7.4	.025
15	0.180098	4.189975	6.9	.024
16	0.187577	3.994404	6.5	.023
17	0.194680	3.839205	6.1	.022
18	0.201454	3.71687	5.8	.021
19	0.207949	3.620724	5.5	.020
20	0.214218	3.544194	5.3	.019
21	0.220315	3.483320	5.1	.018
22	0.226195	3.434788	4.9	.017
23	0.231912	3.395798	4.7	.016
24	0.237432	3.36488	4.5	.015
25	0.242722	3.34088	4.4	.014
26	0.247858	3.32307	4.3	.013
27	0.252817	3.31107	4.2	.012
28	0.257687	3.30454	4.1	.011
29	0.262457	3.30312	4.0	.010
30	0.267125	3.30658	3.9	.009
31	0.271691	3.31478	3.8	.008

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
25	0.0	624016.832856	*	2.000
1	0.038142	10000.183092	1371.5	.413
2	0.060536	126.175329	249.6	.256
3	0.079957	45.935240	97.9	.133
4	0.096709	25.273468	53.5	.095
5	0.111203	17.021772	34.8	.071
6	0.123844	12.846115	25.1	.055
7	0.134959	10.401859	19.4	.042
8	0.144806	8.824596	15.8	.036
9	0.153591	7.733313	13.5	.033
10	0.161860	6.933814	11.9	.031
11	0.169660	6.333814	10.8	.028
12	0.177091	5.926684	10.0	.027
13	0.184132	5.624531	9.5	.026
14	0.190860	5.422435	9.0	.025
15	0.197243	5.268866	8.6	.024
16	0.203347	5.143355	8.2	.023
17	0.209143	5.040416	7.9	.022
18	0.214697	4.956217	7.6	.021
19	0.220022	4.880672	7.3	.020
20	0.225177	4.812178	7.1	.019
21	0.230120	4.750199	6.9	.018
22	0.234820	4.694341	6.7	.017
23	0.239337	4.64416	6.5	.016
24	0.243730	4.60007	6.3	.015
25	0.247973	4.56172	6.1	.014
26	0.252046	4.52872	6.0	.013
27	0.255947	4.49999	5.8	.012
28	0.259677	4.47534	5.7	.011
29	0.263240	4.45467	5.5	.010
30	0.266663	4.43788	5.4	.009
31	0.269963	4.42488	5.3	.008

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.0	0.966436	*	2.000
1	0.042467	1000.177329	1407.1	1.413
2	0.066841	125.776680	256.1	1.257
3	0.083013	45.657886	100.5	1.184
4	0.106303	25.055442	54.8	1.143
5	0.122186	16.835391	35.6	1.116
6	0.133087	12.673609	25.7	1.097
7	0.148349	10.246578	19.9	1.083
8	0.159243	8.677721	16.2	1.073
9	0.169002	7.592982	13.6	1.065
10	0.178574	6.720524	11.3	1.052
11	0.187960	5.963348	10.0	1.044
12	0.197112	5.380172	8.4	1.037
13	0.206081	4.861678	7.7	1.033
14	0.214812	4.401678	6.2	1.029
15	0.223399	4.02778	5.6	1.022
16	0.231741	3.607686	4.9	1.016
17	0.239967	3.305374	4.5	1.013
18	0.247192	3.101725	4.1	1.010
19	0.254317	2.955227	3.8	1.009
20	0.261350	2.844775	3.6	1.008
21	0.268293	2.758512	3.4	1.008
22	0.275147	2.689268	3.3	1.008
23	0.281911	2.632454	3.2	1.008
24	0.288599		3.1	1.008
25	0.295211		3.0	1.008
26	0.301757		2.9	1.008
27	0.308237		2.8	1.008
28	0.314651		2.7	1.008
29	0.321009		2.6	1.008
30	0.327311		2.5	1.008

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
35	0.0	0.727820	*	2.000
1	0.045773	1000.167212	1437.0	1.413
2	0.071644	125.489740	261.6	1.257
3	0.094142	45.458191	102.6	1.185
4	0.113621	24.898307	56.0	1.144
5	0.130579	16.700924	36.4	1.117
6	0.144545	12.557636	26.4	1.098
7	0.158619	10.134321	20.3	1.084
8	0.170347	8.571436	16.0	1.074
9	0.180868	7.490972	13.9	1.065
10	0.189987	6.710880	12.0	1.053
11	0.198057	5.270239	10.5	1.044
12	0.20557	4.710735	8.9	1.038
13	0.212680	4.331209	7.2	1.033
14	0.219375	4.014155	6.3	1.029
15	0.225635	3.752036	5.6	1.022
16	0.231478	3.521856	4.6	1.018
17	0.236810	3.301507	3.9	1.013
18	0.241723	3.086857	3.3	1.010
19	0.246210	2.875802	2.9	1.009
20	0.250370	2.671621	2.7	1.009
21	0.254203	2.602220	2.6	1.009
22	0.257813	2.545241	2.5	1.008
23	0.261207		2.4	1.008
24	0.264384		2.3	1.008
25	0.267353		2.2	1.008
26	0.270114		2.1	1.008
27	0.272667		2.0	1.008
28	0.275011		1.9	1.008
29	0.277155		1.8	1.008
30	0.279109		1.7	1.008

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
40	0.0	628712.027091	*	2.000
41	0.048374	10000.158716	1462.5	1.413
42	0.075416	125.273426	1266.1	1.257
43	0.098957	45.307554	1004.4	1.185
44	0.119375	24.779685	836.9	1.144
45	0.137187	16.599335	737.0	1.117
46	0.152849	12.466169	626.7	1.099
47	0.166731	10.049377	520.7	1.085
48	0.179126	8.490949	466.8	1.074
49	0.190269	7.413663	444.1	1.065
50	0.200952	6.603607	410.7	1.053
51	0.225574	5.199472	387.7	1.045
52	0.233920	4.641488	374.4	1.038
53	0.250947	4.243836	364.4	1.034
54	0.261110	3.946544	357.7	1.030
55	0.288180	3.453367	346.6	1.023
56	0.297483	3.153010	333.5	1.018
57	0.309838	2.948513	325.5	1.015
58	0.319839	2.801882	322.2	1.013
59	0.328811	2.691157	320.9	1.011
60	0.333506	2.604559	320.8	1.010
61	0.344101	2.534954	320.6	1.009
62	0.346142	2.477774	320.5	1.008

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
43	0.0	629585.606230	*	2.000
44	0.050470	10000.151534	1484.0	1.413
45	0.078431	125.210431	1270.0	1.258
46	0.102834	45.289880	1005.9	1.186
47	0.124208	24.686965	857.8	1.144
48	0.142519	16.519879	737.5	1.118
49	0.158820	12.336453	627.1	1.099
50	0.173292	9.982856	527.0	1.085
51	0.186237	8.427878	467.0	1.075
52	0.197893	7.353046	444.3	1.066
53	0.218063	6.678145	410.9	1.054
54	0.234933	5.143833	387.8	1.045
55	0.249336	4.587004	374.5	1.039
56	0.261744	4.190070	364.5	1.034
57	0.272577	3.893238	357.8	1.030
58	0.294517	3.400784	346.7	1.023
59	0.311273	3.099314	333.0	1.018
60	0.324527	2.895717	325.5	1.015
61	0.333529	2.748905	322.2	1.013
62	0.344234	2.637968	320.9	1.011
63	0.351758	2.551146	320.8	1.010
64	0.358204	2.491320	320.6	1.009
65	0.363784	2.432392	320.5	1.008

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE





DF	C-1	C-2	A-2/A-1	REDUCTION
50	1 0.0	630285 .370070	* 2.000	2.000
1	0.052194	10000 .145585	1502.3	1.414
2	0.080946	124 .969008	273.3	1.238
3	0.106020	45 .095420	107.3	1.136
4	0.127827	24 .612500	58.5	1.143
5	0.146909	16 .456035	38.0	1.148
6	0.163740	12 .337036	27.4	1.149
7	0.179705	9 .229349	21.7	1.148
8	0.192109	8 .377121	17.2	1.146
9	0.204196	7 .504238	14.5	1.147
10	0.223515	5 .931831	11.0	1.154
11	0.225156	5 .931831	8.9	1.146
12	0.242747	5 .098981	7.5	1.139
13	0.257756	4 .543007	6.6	1.134
14	0.270737	4 .46615	5.9	1.130
15	0.282093	3 .850117	5.3	1.130
16	0.305163	3 .353003	4.7	1.123
17	0.322853	2 .036528	4.0	1.116
18	0.336897	2 .852785	3.6	1.114
19	0.343337	2 .705768	3.2	1.112
20	0.357853	2 .594603	3.0	1.112
21	0.365899	2 .507551	2.8	1.110
22	0.372798	2 .437500	2.6	1.109
23	0.378781	2 .379891	2.5	1.108

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

DF	C-1	C-2	A-2/A-1	REDUCTION
55	1 0.0	630858 .524891	* 2.000	2.000
1	0.053636	10000 .140478	1518.1	1.414
2	0.083030	124 .857858	276.1	1.238
3	0.108633	45 .017922	106.3	1.136
4	0.131013	24 .553382	59.1	1.143
5	0.150584	16 .403612	38.4	1.148
6	0.167863	12 .299752	27.7	1.149
7	0.183245	9 .888537	21.5	1.148
8	0.197039	8 .335391	17.4	1.146
9	0.209499	7 .264094	14.6	1.147
10	0.223111	5 .893705	11.1	1.154
11	0.249313	5 .062012	9.0	1.146
12	0.264866	4 .506730	7.6	1.140
13	0.278344	4 .110758	6.6	1.135
14	0.290150	3 .814510	5.9	1.130
15	0.314205	3 .322616	4.8	1.124
16	0.332717	3 .021084	4.1	1.119
17	0.347455	2 .817171	3.6	1.116
18	0.359495	2 .669938	3.3	1.114
19	0.369532	2 .558545	3.0	1.112
20	0.378038	2 .471265	2.8	1.111
21	0.385344	2 .400953	2.7	1.109
22	0.391692	2 .343174	2.5	1.108

CONFIDENCE LEVEL=.999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.0	0.553997	*	2.000
50	0.054859	0.136082	1.53	.414
40	0.084798	124.765051	2.78	.258
30	0.110943	44.553195	4.09	.186
20	0.133726	24.500319	5.9	.145
10	0.153705	16.359798	13.8	.119
5	0.171368	12.250237	28.0	.100
2	0.187107	9.848600	27.7	.086
1	0.201235	8.300475	17.6	.076
0	0.214002	7.230492	14.8	.067
0	0.223621	5.861770	11.2	.055
0	0.234923	5.031025	9.1	.046
0	0.270947	4.476302	7.7	.040
0	0.294854	4.080661	6.7	.035
0	0.297058	3.784604	6.0	.031
0	0.321980	3.292851	4.8	.024
0	0.341217	3.991230	4.1	.019
0	0.356574	2.787137	3.6	.016
0	0.369149	2.639690	3.3	.014
0	0.379634	2.528074	3.0	.012
0	0.388574	2.440572	2.8	.011
0	0.396248	2.370038	2.7	.010
0	0.402926	2.312067	2.5	.009

CONFIDENCE LEVEL = .999  
 COEFFICIENTS FOR MINIMUM LENGTH CONFIDENCE INTERVAL  
 FOR THE RATIO OF TWO STANDARD DEVIATIONS

\* EXCESSIVELY LARGE



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0025086	39.863458	1.0000	0.000000
2	0.0033392	12.632741	0.5499	0.021116
3	0.0037733	8.906935	0.4112	0.041192
4	0.0039755	7.530233	0.3488	0.055576
5	0.040986	6.823430	0.3122	0.065233
6	0.0418007	6.395196	0.2888	0.072004
7	0.0423391	6.108500	0.2722	0.077714
8	0.042826	5.903314	0.2600	0.081110
9	0.0431655	5.749231	0.2500	0.084255
10	0.0434300	5.629429	0.2433	0.086821
11	0.0438291	5.455075	0.2333	0.090076
12	0.0441110	5.334390	0.2250	0.093662
13	0.0444320	5.245916	0.2199	0.095800
14	0.0444821	5.178284	0.2151	0.097552
15	0.0446111	5.122490	0.2111	0.099390
16	0.0448411	5.030435	0.2050	0.10142
17	0.0449914	4.968578	0.2011	0.103111
18	0.045102	4.924935	0.1988	0.104333
19	0.045182	4.892494	0.1966	0.105255
20	0.0452245	4.867433	0.1944	0.10596
21	0.0452955	4.847493	0.1933	0.10654
22	0.0453335	4.831247	0.1922	0.10701
23	0.0453669	4.817758	0.1911	0.10740

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.079159	29.476397	2.823	0.021116
3	0.111111	9.000000	1.000	0.000000
4	0.126620	6.326490	0.747	0.004500
5	0.135363	5.204129	0.627	0.011003
6	0.141333	4.679555	0.557	0.01687
7	0.145350	4.361729	0.511	0.02161
8	0.148301	4.148902	0.479	0.02548
9	0.150559	3.996539	0.456	0.02866
10	0.152340	3.882126	0.437	0.03131
11	0.153781	3.793074	0.423	0.03354
12	0.155967	3.663477	0.401	0.03571
13	0.157547	3.573727	0.386	0.03719
14	0.158741	3.507905	0.375	0.04189
15	0.159676	3.457571	0.366	0.04358
16	0.160426	3.417835	0.359	0.04496
17	0.161785	3.347478	0.347	0.04753
18	0.162695	3.301389	0.339	0.04900
19	0.163348	3.268860	0.333	0.05059
20	0.163838	3.244674	0.328	0.05177
21	0.164222	3.225937	0.325	0.05233
22	0.164511	3.211111	0.322	0.05277
23	0.164778	3.198998	0.320	0.05346
24	0.164937	3.188935	0.318	0.05392

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.112272	26.501649	2.425	1.04192
4	0.160604	7.897632	1.338	1.00451
5	0.185502	5.390773	1.000	1.00000
6	0.200490	4.467110	0.837	1.00158
7	0.210469	3.992901	0.741	1.00436
8	0.221758	3.705351	0.673	1.00719
9	0.232990	3.512637	0.634	1.00976
10	0.243290	3.374563	0.600	1.01204
11	0.253032	3.270805	0.575	1.01404
12	0.262223	3.189995	0.554	1.01578
13	0.271179	3.122297	0.534	1.01767
14	0.279979	3.069711	0.503	1.02095
15	0.288486	3.030830	0.486	1.02278
16	0.296430	3.001010	0.474	1.02428
17	0.303873	2.984831	0.464	1.02553
18	0.310845	2.978469	0.446	1.02790
19	0.317353	2.974265	0.434	1.02957
20	0.323570	2.971296	0.425	1.03081
21	0.329556	2.969087	0.419	1.03176
22	0.335332	2.967380	0.414	1.03253
23	0.340946	2.966022	0.410	1.03313
24	0.346435	2.964914	0.407	1.03364
25	0.351879	2.963994	0.404	1.03407

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.133779	25.153982	2.870	1.05576
5	0.192255	7.376653	1.595	1.00409
6	0.233895	4.987776	1.133	1.00000
7	0.264373	4.107250	1.000	1.00000
8	0.285680	3.654719	0.885	1.00000
9	0.306643	3.380001	0.808	1.00213
10	0.327376	3.195635	0.754	1.00371
11	0.347950	3.063497	0.715	1.00525
12	0.368412	2.964074	0.681	1.00669
13	0.387917	2.886577	0.656	1.00800
14	0.407379	2.827359	0.638	1.00930
15	0.426813	2.782179	0.621	1.01077
16	0.446146	2.747573	0.607	1.01217
17	0.465411	2.723458	0.595	1.01350
18	0.484622	2.708591	0.584	1.01482
19	0.503792	2.696756	0.574	1.01613
20	0.522925	2.686175	0.565	1.01743
21	0.541948	2.676495	0.557	1.01873
22	0.560868	2.667450	0.549	1.01998
23	0.579699	2.658964	0.542	1.02123
24	0.598443	2.650977	0.535	1.02248
25	0.617107	2.643499	0.529	1.02373
26	0.635692	2.636578	0.523	1.02498
27	0.654207	2.630161	0.517	1.02623
28	0.672651	2.624195	0.511	1.02748
29	0.691024	2.618617	0.505	1.02873
30	0.709326	2.613365	0.500	1.02998
31	0.727557	2.608467	0.494	1.03123
32	0.745717	2.603851	0.488	1.03248
33	0.763806	2.600000	0.483	1.03373
34	0.781824	2.596444	0.477	1.03498
35	0.799771	2.593117	0.472	1.03623
36	0.817647	2.590051	0.467	1.03748

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.146554	24.398616	3.207	.06523
6	0.213696	7.075475	1.795	.01687
7	0.250444	4.751291	1.349	.00436
8	0.273615	3.894047	1.131	.00072
9	0.289605	3.452982	1.000	.00000
10	0.301317	3.184905	0.913	.00038
11	0.311027	3.004840	0.851	.00120
12	0.317355	2.875567	0.804	.00216
13	0.322092	2.778244	0.768	.00316
14	0.327837	2.702320	0.738	.00412
15	0.333523	2.591509	0.694	.00589
16	0.334072	2.514510	0.663	.00742
17	0.334497	2.457883	0.639	.00873
18	0.334836	2.414432	0.621	.00986
19	0.335111	2.380153	0.606	.01083
20	0.335620	2.319211	0.579	.01274
21	0.335967	2.279172	0.561	.01416
22	0.336222	2.250855	0.548	.01533
23	0.336413	2.229739	0.539	.01608
24	0.336564	2.213440	0.531	.01677
25	0.336685	2.200439	0.525	.01733
26	0.336786	2.189837	0.520	.01780
27	0.336870	2.181026	0.516	.01820

CONFIDENCE LEVEL=.8  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.156367	23.919501	3.469	.07204
7	0.229267	8.879939	1.955	.02161
8	0.269880	4.595994	1.475	.00719
9	0.295858	3.752984	1.238	.00215
10	0.313988	3.318768	1.095	.00033
11	0.327380	3.054551	1.000	.00000
12	0.337707	2.876885	0.932	.00023
13	0.345918	2.749205	0.880	.00074
14	0.352608	2.652993	0.840	.00137
15	0.358166	2.577874	0.807	.00205
16	0.366875	2.468119	0.758	.00339
17	0.373390	2.391758	0.723	.00461
18	0.378430	2.335542	0.696	.00571
19	0.382495	2.292417	0.675	.00667
20	0.385803	2.258231	0.653	.00752
21	0.389192	2.197620	0.628	.00922
22	0.396137	2.157717	0.608	.01052
23	0.399209	2.129467	0.593	.01155
24	0.401350	2.108413	0.583	.01233
25	0.403396	2.092116	0.575	.01299
26	0.404883	2.079125	0.566	.01349
27	0.406111	2.068528	0.561	.01395
28	0.407141	2.059718	0.556	.01433

CONFIDENCE LEVEL=.8  
SHORTEST UNBIASED CONFIDENCE INTERVAL









DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.173935	23.168157	3.5944	.08425
10	0.257591	6.564252	2.286	.03131
11	0.305735	4.341618	1.740	.01404
12	0.337374	3.519643	1.468	.00669
13	0.359940	3.095095	1.303	.00316
14	0.376933	2.836013	1.131	.00137
15	0.390233	2.661310	1.110	.00049
16	0.400949	2.535429	1.049	.00010
17	0.409779	2.440340	1.000	.00000
18	0.417183	2.365932	0.961	.00007
19	0.423854	2.256898	0.901	.00048
20	0.437858	2.180772	0.857	.00103
21	0.444862	2.124560	0.824	.00162
22	0.450512	2.081328	0.798	.00220
23	0.455170	2.047032	0.776	.00274
24	0.463882	1.985901	0.738	.00393
25	0.469943	1.945543	0.711	.00490
26	0.474406	1.916892	0.692	.00569
27	0.477830	1.895493	0.673	.00634
28	0.480541	1.873900	0.660	.00688
29	0.482740	1.865655	0.657	.00734
30	0.484560	1.854836	0.650	.00773
31	0.486092	1.845334	0.644	.00807

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
0	0.177638	23.025388	4.115	.08682
1	0.263638	6.502755	2.364	.03354
2	0.313480	4.291445	1.804	.01578
3	0.346431	3.473220	1.524	.00801
4	0.370052	3.050297	1.354	.00413
5	0.387917	2.792003	1.239	.00205
6	0.401930	2.617697	1.155	.00092
7	0.413293	2.492008	1.091	.00034
8	0.422666	2.396999	1.041	.00007
9	0.430551	2.322604	1.000	.00000
10	0.443093	2.213497	0.937	.00018
11	0.452650	2.137239	0.892	.00057
12	0.460176	2.080380	0.857	.00103
13	0.466263	2.037500	0.829	.00150
14	0.471291	2.003062	0.807	.00197
15	0.480723	1.941620	0.766	.00301
16	0.487308	1.901009	0.738	.00389
17	0.492168	1.872133	0.713	.00462
18	0.495904	1.850536	0.702	.00522
19	0.498866	1.833385	0.690	.00573
20	0.501273	1.820437	0.681	.00617
21	0.503267	1.809598	0.673	.00654
22	0.504947	1.800477	0.666	.00687

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.183336	22.816149	4.307	.09076
1	0.372965	6.411597	2.491	.03710
2	0.325489	4.216648	2.909	.01867
3	0.360544	3.403730	2.617	.01030
4	0.385876	2.983019	2.440	.00589
5	0.405167	2.725727	2.339	.00339
6	0.420413	2.551862	2.233	.00190
7	0.432801	2.426329	2.164	.00101
8	0.443086	2.331320	2.110	.00048
9	0.451774	2.256339	2.067	.00008
10	0.465671	2.147437	2.000	.00000
11	0.476318	2.070326	0.951	.00011
12	0.484750	2.014414	0.913	.00025
13	0.491599	1.970399	0.894	.00063
14	0.497277	1.935642	0.859	.00098
15	0.507985	1.872527	0.855	.00178
16	0.515505	1.832379	0.784	.00249
17	0.522108	1.803090	0.762	.00311
18	0.525533	1.781169	0.745	.00363
19	0.527880	1.764141	0.731	.00408
20	0.533590	1.750529	0.721	.00447
21	0.533503	1.739398	0.712	.00489
22	0.533554	1.730125	0.704	.00511

CONFIDENCE LEVEL=.3  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.187463	22.670385	4.453	.09362
1	0.379820	6.347310	2.539	.03979
2	0.334369	4.263370	2.991	.02095
3	0.371093	3.554196	2.609	.01217
4	0.397692	2.934836	2.508	.00742
5	0.418100	2.678164	2.384	.00461
6	0.434306	2.504490	2.292	.00337
7	0.447533	2.373955	2.222	.00217
8	0.458553	2.283846	2.167	.00140
9	0.467893	2.209212	2.121	.00057
10	0.482899	2.099436	2.051	.00011
11	0.494454	2.022434	2.000	.00000
12	0.503643	1.965343	0.960	.00007
13	0.511156	1.922273	0.929	.00023
14	0.517368	1.886209	0.903	.00044
15	0.522917	1.822341	0.855	.00103
16	0.533750	1.781737	0.832	.00161
17	0.543709	1.752020	0.798	.00212
18	0.548511	1.729747	0.780	.00258
19	0.552333	1.712427	0.766	.00298
20	0.555464	1.698569	0.754	.00332
21	0.558062	1.687227	0.744	.00363
22	0.560258	1.677773	0.736	.00390

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.190624	22.563123	4.568	.00580
17	0.285070	6.299559	2.667	.004189
18	0.341200	4.123957	2.057	.002378
19	0.379136	3.317099	1.751	.001373
20	0.406854	2.898736	1.564	.000873
21	0.428166	2.642354	1.437	.000571
22	0.445153	2.468744	1.343	.000377
23	0.459061	2.343139	1.271	.000249
24	0.470686	2.247890	1.214	.000163
25	0.480566	2.173082	1.167	.000103
26	0.496497	2.062921	1.095	.000035
27	0.508817	1.985532	.941	.000007
28	0.518663	1.928079	.800	.000000
29	0.526695	1.883680	0.967	.000005
30	0.533403	1.848307	0.840	.000016
31	0.538615	1.784876	0.890	.000057
32	0.543207	1.742686	0.855	.000103
33	0.546195	1.712558	0.830	.000146
34	0.548721	1.689950	0.810	.000185
35	0.551408	1.672350	0.795	.000220
36	0.554337	1.658256	0.782	.000251
37	0.557694	1.646712	0.772	.000279
38	0.560112	1.637082	0.763	.000304

CONFIDENCE LEVEL=.8  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.193114	22.480938	4.661	.005752
4	0.289220	6.262701	2.730	.004358
5	0.346619	4.093266	2.112	.002429
6	0.385386	3.283277	1.801	.001504
7	0.414168	2.870584	1.611	.000986
8	0.436221	2.614410	1.461	.000667
9	0.453854	2.440800	1.386	.000459
10	0.468330	2.315095	1.312	.000318
11	0.480462	2.219695	1.254	.000220
12	0.490798	2.144712	1.206	.000150
13	0.500751	2.084179	1.132	.000065
14	0.520437	1.956426	1.071	.000023
15	0.530876	1.898633	1.034	.000005
16	0.539397	1.853923	1.000	.000000
17	0.546520	1.818263	0.972	.000003
18	0.560112	1.754238	0.920	.000029
19	0.569793	1.711373	0.884	.000064
20	0.577050	1.681062	0.857	.000100
21	0.582698	1.658338	0.836	.000133
22	0.589722	1.640274	0.820	.000164
23	0.590927	1.625956	0.807	.000192
24	0.594019	1.614220	0.796	.000217
25	0.596638	1.604423	0.786	.000239

CONFIDENCE LEVEL=.8  
SHORTEST UNBIASED CONFIDENCE INTERVAL



20	DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.	0.195125	22.415981	4.738	.09890
2	0.	0.192583	6.233395	2.783	.04496
3	0.	0.135102	4.068790	2.157	.02553
4	0.	0.390840	3.265239	1.843	.01614
5	0.	0.420141	3.848038	1.650	.01083
6	0.	0.442815	2.591993	1.519	.00752
7	0.	0.460999	2.418350	1.422	.00532
8	0.	0.475949	2.292533	1.347	.00388
9	0.	0.488512	2.196983	1.288	.00274
10	0.	0.499336	2.121832	1.239	.00197
20	0.	0.516624	2.010957	1.164	.00098
40	0.	0.530164	1.932861	1.107	.00044
60	0.	0.534103	1.874755	1.064	.00016
80	0.	0.534997	1.829759	1.029	.00003
100	0.	0.535746	1.793843	1.000	.00000
200	0.	0.537179	1.729261	0.946	.00001
300	0.	0.538204	1.686155	0.909	.00000
400	0.	0.538974	1.655286	0.888	.00000
500	0.	0.539575	1.632057	0.859	.00000
600	0.	0.600577	1.613955	0.842	.00000
700	0.	0.604533	1.599426	0.828	.00000
800	0.	0.607844	1.587509	0.817	.00000
900	0.	0.610647	1.577556	0.807	.00000

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

25	DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.	0.198790	22.300851	4.880	.10142
2	0.	0.198732	6.181053	2.883	.04753
3	0.	0.339106	4.024908	2.244	.02790
4	0.	0.400520	3.223812	1.923	.01929
5	0.	0.431184	2.807397	1.727	.01274
6	0.	0.455038	2.551495	1.592	.00923
7	0.	0.474258	2.377709	1.493	.00685
8	0.	0.490144	2.251614	1.417	.00516
9	0.	0.503550	2.155721	1.356	.00393
10	0.	0.515034	2.080199	1.306	.00301
20	0.	0.533753	1.968561	1.227	.00178
40	0.	0.548420	1.889747	1.169	.00103
60	0.	0.560263	1.830969	1.124	.00057
80	0.	0.570042	1.785357	1.087	.00029
100	0.	0.578282	1.748880	1.057	.00013
200	0.	0.594144	1.683101	1.000	.00000
300	0.	0.605569	1.659034	0.960	.00000
400	0.	0.614211	1.607379	0.930	.00000
500	0.	0.620998	1.583307	0.907	.00000
600	0.	0.626463	1.564345	0.889	.00000
700	0.	0.630965	1.549845	0.873	.00000
800	0.	0.634739	1.537522	0.861	.00000
900	0.	0.637949	1.527214	0.850	.00000

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.201265	0.225394	4.979	1.0311
31	0.302903	0.146468	2.953	0.0493
32	0.364611	0.995780	2.306	0.0295
33	0.407137	0.196226	1.981	0.0198
34	0.438756	0.780256	1.782	0.0105
35	0.463453	0.324381	1.646	0.0080
36	0.483421	0.350437	1.545	0.0062
37	0.499984	0.224096	1.463	0.0049
38	0.512399	0.127917	1.406	0.0038
39	0.526036	0.052092	1.353	0.0029
40	0.545739	0.939845	1.275	0.0024
41	0.562250	0.860449	1.216	0.0019
42	0.573821	0.800113	1.169	0.0015
43	0.588453	0.755024	1.132	0.0012
44	0.599506	0.718094	1.100	0.0009
45	0.610101	0.651339	1.042	0.0007
46	0.622247	0.608479	1.000	0.0005
47	0.633188	0.574170	0.969	0.0004
48	0.643929	0.549750	0.944	0.0003
49	0.655238	0.530621	0.925	0.0002
50	0.665023	0.515221	0.909	0.0001
51	0.675433	0.502549	0.893	0.0001
52	0.685799	0.491936	0.884	0.0001

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
55	0.203604	0.172138	5.032	0.0433
56	0.305917	0.121910	3.005	0.0503
57	0.368600	0.977539	2.332	0.0209
58	0.412947	0.476537	2.024	0.0138
59	0.442776	0.760846	1.824	0.0094
60	0.469601	0.350495	1.696	0.0075
61	0.490133	0.330863	1.585	0.0060
62	0.507203	0.204314	1.507	0.0047
63	0.521678	0.107899	1.443	0.0036
64	0.533414	0.031827	1.393	0.0026
65	0.544603	0.919036	1.313	0.0021
66	0.554770	0.839219	1.252	0.0016
67	0.563922	0.779464	1.205	0.0012
68	0.573133	0.732952	1.167	0.0009
69	0.582411	0.695650	1.135	0.0007
70	0.592221	0.628091	1.075	0.0005
71	0.603525	0.582371	1.032	0.0004
72	0.614528	0.549712	1.000	0.0003
73	0.625320	0.524825	0.975	0.0002
74	0.635963	0.505300	0.954	0.0001
75	0.646496	0.489556	0.938	0.0001
76	0.656945	0.476584	0.923	0.0001
77	0.667322	0.465705	0.911	0.0001

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



40	DF		C-1	C-2	A-2/A-1	REDUCTION
		0.0	0.204395	22.131550	5.107	1.10525
		0.0	0.308197	6.103575	5.1045	1.10515
		0.0	0.371626	3.959519	5.10337	1.103176
		0.0	0.415602	2.61778	5.10338	1.102188
		0.0	0.448479	2.746274	5.10557	1.10608
		0.0	0.474290	2.490350	5.10713	1.10231
		0.0	0.495258	2.316129	5.10617	1.100969
		0.0	0.512728	2.089405	5.10538	1.100778
		0.0	0.527567	2.092794	5.10475	1.100634
		0.0	0.540369	2.016519	5.10424	1.100532
		0.0	0.551429	2.003372	5.10343	1.100363
		0.0	0.561781	2.033001	5.10282	1.100355
		0.0	0.591733	2.063001	5.10224	1.100333
		0.0	0.603086	2.071615	5.10196	1.100306
		0.0	0.612220	2.067854	5.10164	1.100240
		0.0	0.633511	2.061032	5.10102	1.100144
		0.0	0.645266	2.056423	5.10059	1.100003
		0.0	0.655812	2.053309	5.10026	1.100000
		0.0	0.664176	2.050362	5.10000	1.100000
		0.0	0.676982	2.485756	5.0979	1.100002
		0.0	0.676634	2.469714	5.0962	1.100006
		0.0	0.689407	2.430479	5.0947	1.100002
		0.0	0.685493	2.445369	5.0935	1.100009

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

45	DF		C-1	C-2	A-2/A-1	REDUCTION
		0.0	0.205447	22.101970	5.151	1.100596
		0.0	0.309933	6.089364	5.1077	1.10523
		0.0	0.370938	3.947469	5.10416	1.10223
		0.0	0.418472	3.503003	5.1085	1.10226
		0.0	0.451735	3.734933	5.1083	1.10677
		0.0	0.477798	3.478969	5.10744	1.10296
		0.0	0.499304	3.204635	5.10642	1.10030
		0.0	0.517093	3.77763	5.10564	1.100835
		0.0	0.532226	3.00939	5.1000	1.100688
		0.0	0.545300	3.004545	5.10449	1.100573
		0.0	0.566848	3.891039	5.10367	1.100408
		0.0	0.583967	3.810482	5.10306	1.100298
		0.0	0.597933	3.730062	5.10258	1.100200
		0.0	0.609634	3.702936	5.10199	1.100164
		0.0	0.619596	3.665063	5.10187	1.100122
		0.0	0.639041	3.596263	5.10255	1.100058
		0.0	0.653330	3.497310	5.10043	1.100025
		0.0	0.663305	3.515931	5.10043	1.100000
		0.0	0.673058	3.490354	5.10211	1.100002
		0.0	0.680186	3.470187	5.10000	1.100000
		0.0	0.686113	3.453833	5.0982	1.100001
		0.0	0.691137	3.440419	5.0967	1.100005
		0.0	0.695440	3.429104	5.0954	1.100009

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
50	0.206292	22.077639	5.187	.1C654
49	0.311418	66.078027	3.102	.05297
48	0.375909	33.937843	2.439	.03313
47	0.420787	33.141127	2.107	.02320
46	0.454455	33.725851	1.904	.01733
45	0.480971	33.469851	1.766	.01349
44	0.502578	33.295419	1.663	.01081
43	0.520629	33.169421	1.583	.00884
42	0.536005	33.071508	1.521	.00734
41	0.549303	33.994920	1.469	.00617
40	0.561256	33.881149	1.388	.00447
39	0.588731	33.800298	1.327	.00332
38	0.603043	33.739622	1.279	.00252
37	0.615023	33.692257	1.240	.00192
36	0.625224	33.654165	1.207	.00144
35	0.645523	33.584874	1.143	.00076
34	0.659976	33.537910	1.100	.00038
33	0.671341	33.503332	1.067	.00037
32	0.680845	33.477904	1.040	.00006
31	0.688781	33.457475	1.018	.00001
30	0.693900	33.440942	1.000	.00000
29	0.699235	33.427274	0.985	.00001
28	0.703721	33.415778	0.972	.00003

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
55	0.206936	22.057322	5.216	.1C701
54	0.312598	66.068777	3.124	.05349
53	0.377488	33.929975	2.453	.03364
52	0.422633	33.133621	2.126	.02369
51	0.456655	33.718419	1.922	.01780
50	0.483433	33.462382	1.783	.01395
49	0.505233	33.387864	1.681	.01124
48	0.523353	33.160757	1.602	.00925
47	0.539133	33.063726	1.539	.00773
46	0.553266	33.987015	1.437	.00654
45	0.574912	33.873000	1.403	.00431
44	0.592688	33.791915	1.344	.00363
43	0.607271	33.731019	1.295	.00279
42	0.619494	33.683449	1.257	.00217
41	0.629991	33.645165	1.224	.00169
40	0.650397	33.575451	1.162	.00093
39	0.665536	33.529130	1.117	.00051
38	0.677239	33.493745	1.083	.00026
37	0.686587	33.467552	1.056	.00022
36	0.694242	33.446892	1.034	.00005
35	0.700636	33.430155	1.016	.00001
34	0.706062	33.416305	1.000	.00000
33	0.710729	33.404646	0.987	.00001

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



60 DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.207565	22.041367	5.241	.10740
2	0.313584	6.061075	3.142	.05392
3	0.378795	3.923426	2.475	.03407
4	0.424290	3.127367	2.141	.02411
5	0.458500	2.712222	2.038	.01820
6	0.485503	2.456150	1.799	.01433
7	0.507552	2.281558	1.696	.01166
8	0.526010	2.154357	1.617	.00960
9	0.541761	2.057223	1.554	.00807
10	0.555408	1.980407	1.502	.00687
12	0.577993	1.866180	1.420	.00590
14	0.596028	1.784893	1.359	.00390
16	0.610843	1.723806	1.313	.00304
18	0.623277	1.676057	1.272	.00239
20	0.633892	1.637607	1.239	.00190
25	0.654787	1.567523	1.177	.00100
30	0.670270	1.519337	1.132	.00063
35	0.682266	1.485232	1.097	.00036
40	0.691865	1.453804	1.070	.00019
45	0.699739	1.437938	1.048	.00009
50	0.706326	1.423018	1.029	.00003
55	0.711923	1.407006	1.014	.00001
60	0.716745	1.395201	1.000	.00000

CONFIDENCE LEVEL=.8  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.006194	161.447639	1.0000	1.00000
2	0.008641	27.570305	0.525	1.01814
3	0.009762	15.213918	0.380	1.03697
4	0.010367	12.601221	0.312	1.04978
5	0.010735	10.881137	0.274	1.05862
6	0.010980	9.885648	0.249	1.06499
7	0.011153	9.239456	0.232	1.06976
8	0.011282	8.787164	0.220	1.07347
9	0.011381	8.453295	0.210	1.07642
10	0.011459	8.196916	0.203	1.07882
12	0.011575	7.829325	0.192	1.08249
14	0.011657	7.578650	0.184	1.08516
16	0.011717	7.396858	0.179	1.08719
18	0.011763	7.259023	0.174	1.08907
20	0.011800	7.150944	0.171	1.09000
25	0.011866	6.961167	0.165	1.09240
30	0.011909	6.837966	0.160	1.09397
35	0.011939	6.751548	0.158	1.09510
40	0.011962	6.687536	0.155	1.09595
45	0.011979	6.638337	0.154	1.09661
50	0.011993	6.599247	0.153	1.09714
55	0.012005	6.567463	0.151	1.09758
60	0.012014	6.541119	0.151	1.09794

CONFIDENCE LEVEL=.9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.036271	115.722722	1.906	1.01814
3	0.052632	19.000000	1.000	1.00000
4	0.061066	10.934086	0.721	1.00427
5	0.066035	8.383919	0.590	1.01061
6	0.069269	7.173335	0.514	1.01632
7	0.071527	6.473875	0.465	1.02083
8	0.073188	6.020296	0.431	1.02460
9	0.074459	5.703029	0.406	1.02770
10	0.075462	5.468935	0.387	1.03029
12	0.076272	5.289227	0.372	1.03246
14	0.077500	5.031642	0.349	1.03592
16	0.078387	4.356029	0.334	1.03853
18	0.079056	4.728692	0.322	1.04057
20	0.079578	4.632156	0.313	1.04221
25	0.079998	4.556462	0.306	1.04355
30	0.080756	4.423560	0.293	1.04603
35	0.081263	4.337283	0.285	1.04774
40	0.081626	4.276766	0.279	1.04899
45	0.081899	4.231974	0.274	1.04994
50	0.082111	4.197484	0.271	1.05068
55	0.082281	4.170108	0.268	1.05128
55	0.082420	4.147852	0.266	1.05178
60	0.082536	4.129403	0.264	1.05220

CONFIDENCE LEVEL=.9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
3				
1	0.0611675	02.434714	2.6333	1.03697
2	0.091457	16.375660	1.387	1.00427
3	0.107799	9.276628	1.000	1.00000
4	0.117897	7.040445	0.816	1.00154
5	0.124708	5.980586	0.709	1.00042
6	0.129596	5.368655	0.640	1.00070
7	0.133270	4.971965	0.591	1.00062
8	0.136129	4.694524	0.555	1.01187
9	0.138416	4.489819	0.527	1.01334
10	0.140286	4.332666	0.505	1.01557
12	0.143159	4.107385	0.473	1.01842
14	0.145263	3.933766	0.450	1.02067
16	0.146869	3.842355	0.432	1.02247
18	0.148136	3.757876	0.419	1.02395
20	0.149159	3.691626	0.409	1.02518
25	0.151026	3.55276	0.390	1.02751
30	0.152287	3.499723	0.377	1.02915
35	0.153196	3.446715	0.369	1.03036
40	0.153883	3.407474	0.362	1.03130
45	0.154420	3.377253	0.357	1.03204
50	0.154851	3.353263	0.353	1.03264
55	0.155205	3.333753	0.350	1.03314
60	0.155500	3.317588	0.347	1.03356

CONFIDENCE LEVEL=.9  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
4				
1	0.079337	96.464485	3.201	1.04578
2	0.113276	15.143404	1.696	1.01061
3	0.142036	8.432010	1.225	1.00134
4	0.156538	6.338233	1.000	1.00000
5	0.166550	5.396382	0.868	1.00071
6	0.173869	4.824117	0.782	1.00212
7	0.179449	4.452974	0.721	1.00363
8	0.183844	4.193347	0.676	1.00529
9	0.187394	4.001736	0.641	1.00663
10	0.190320	3.854596	0.613	1.00797
12	0.194862	3.643587	0.572	1.01024
14	0.198223	3.499629	0.542	1.01210
16	0.200809	3.395179	0.521	1.01365
18	0.202862	3.315948	0.504	1.01494
20	0.204530	3.253793	0.490	1.01604
25	0.207593	3.144585	0.466	1.01816
30	0.209679	3.073630	0.450	1.01968
35	0.211191	3.023823	0.438	1.02083
40	0.212337	2.986948	0.430	1.02172
45	0.213236	2.955339	0.423	1.02243
50	0.213960	2.935982	0.418	1.02280
55	0.214535	2.917639	0.414	1.02335
60	0.215053	2.902430	0.410	1.02391

CONFIDENCE LEVEL=.9  
SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.091902	93.155183	3.650	1.05862
1	0.139405	14.436512	1.945	1.01622
2	0.167208	8.018760	1.410	1.00428
3	0.185302	6.004210	1.152	1.00071
4	0.198007	5.050329	1.000	1.00000
5	0.207419	4.499586	0.900	1.00033
6	0.214674	4.142413	0.829	1.00119
7	0.220439	3.892463	0.776	1.00216
8	0.225130	3.707921	0.736	1.00315
9	0.229022	3.566154	0.703	1.00411
10	0.2335109	3.462741	0.654	1.00588
11	0.239552	3.322373	0.619	1.00741
12	0.243171	3.223058	0.593	1.00871
13	0.245979	3.146547	0.573	1.00983
14	0.248271	3.086499	0.557	1.01080
15	0.2525502	2.830930	0.523	1.01270
16	0.2535403	2.812292	0.509	1.01410
17	0.2537514	2.764090	0.495	1.01517
18	0.259121	2.728379	0.485	1.01601
19	0.260334	2.700862	0.477	1.01669
20	0.261403	2.679008	0.470	1.01725
25	0.262242	2.661232	0.465	1.01772
30	0.262346	2.646490	0.461	1.01812

CONFIDENCE LEVEL=.9  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.101157	91.077853	4.003	1.06499
1	0.154467	13.980096	2.149	1.02033
2	0.186266	7.716267	1.563	1.00707
3	0.207292	5.751463	1.279	1.00212
4	0.222243	4.8221156	1.111	1.00038
5	0.233434	4.283866	1.000	1.00000
6	0.242134	3.935272	0.921	1.00023
7	0.249096	3.691214	0.862	1.00074
8	0.254796	3.510939	0.816	1.00137
9	0.259549	3.372388	0.779	1.00205
10	0.267030	3.173470	0.724	1.00338
11	0.272652	3.037569	0.685	1.00461
12	0.277032	2.933843	0.655	1.00570
13	0.280542	2.863875	0.632	1.00666
14	0.283417	2.805011	0.614	1.00751
15	0.283753	2.701452	0.580	1.00921
16	0.292430	2.634065	0.558	1.01050
17	0.295118	2.586714	0.542	1.01149
18	0.297139	2.551617	0.530	1.01228
19	0.298786	2.524561	0.521	1.01292
20	0.300092	2.503067	0.514	1.01346
25	0.301171	2.485580	0.508	1.01391
30	0.302075	2.471073	0.502	1.01426

CONFIDENCE LEVEL=.9  
SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.1082231	89.662264	4.303	1.06976
1	0.166105	13.663361	2.319	1.02460
2	0.201128	7.503560	1.692	1.00962
3	0.224569	5.572600	1.387	1.00368
4	0.241405	4.658222	1.206	1.00119
5	0.254112	4.129943	1.086	1.00023
6	0.264058	3.787044	1.000	1.00000
7	0.272064	3.546854	0.936	1.00015
8	0.278651	3.369351	0.885	1.00049
9	0.284168	3.232867	0.845	1.00092
10	0.292897	3.036794	0.785	1.00190
11	0.299495	2.902732	0.741	1.00237
12	0.304661	2.805276	0.709	1.00277
13	0.308817	2.731228	0.683	1.00439
14	0.312232	2.673055	0.662	1.00533
15	0.315598	2.627061	0.626	1.00685
16	0.318300	2.593941	0.601	1.00802
17	0.322624	2.457042	0.583	1.00894
18	0.328715	2.422261	0.569	1.00968
19	0.330669	2.335439	0.559	1.01029
20	0.332251	2.337412	0.551	1.01079
21	0.333559	2.335677	0.544	1.01122
22	0.334658	2.342331	0.538	1.01159

CONFIDENCE LEVEL = .9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.113802	88.639906	4.547	1.07347
1	0.175345	13.430157	2.462	1.02770
2	0.213014	7.345974	1.802	1.01187
3	0.239473	5.439394	1.480	1.00522
4	0.256907	4.536411	1.288	1.00216
5	0.270914	4.014521	1.160	1.00074
6	0.281940	3.675610	1.069	1.00015
7	0.290858	3.438101	1.000	1.00000
8	0.298227	3.262496	0.946	1.00010
9	0.304422	3.127408	0.903	1.00034
10	0.311426	2.932219	0.823	1.00101
11	0.317749	2.800341	0.791	1.00176
12	0.322763	2.703679	0.756	1.00249
13	0.327378	2.630191	0.723	1.00318
14	0.332291	2.572428	0.706	1.00382
15	0.336613	2.470658	0.663	1.00517
16	0.348706	2.404319	0.633	1.00623
17	0.352454	2.357641	0.618	1.00708
18	0.355329	2.323006	0.604	1.00778
19	0.357604	2.296284	0.592	1.00835
20	0.359450	2.275040	0.583	1.00893
21	0.360977	2.257745	0.575	1.00934
22	0.362262	2.245392	0.569	1.00959

CONFIDENCE LEVEL = .9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
9				
1	0.118297	87.868951	4.753	1.07642
2	0.182851	13.251755	2.585	1.03029
3	0.222726	7.224614	1.897	1.01384
4	0.249892	5.336361	1.560	1.00665
5	0.269693	4.441883	1.360	1.00315
6	0.284824	3.924716	1.226	1.00137
7	0.296793	3.588723	1.129	1.00049
8	0.306514	3.353149	1.057	1.00010
9	0.314575	3.178893	1.000	1.00000
10	0.321374	3.044783	0.954	1.00007
12	0.332221	2.851883	0.883	1.00048
14	0.340501	2.719785	0.833	1.00103
16	0.347034	2.623625	0.797	1.00162
18	0.352324	2.550475	0.768	1.00220
20	0.356696	2.492947	0.744	1.00274
25	0.364905	2.391517	0.700	1.00364
30	0.370637	2.325340	0.671	1.00491
35	0.374870	2.278742	0.650	1.00569
40	0.378123	2.244143	0.634	1.00634
45	0.380703	2.217446	0.621	1.00688
50	0.382798	2.196209	0.611	1.00734
55	0.384534	2.178914	0.603	1.00773
60	0.385996	2.164557	0.596	1.00807

CONFIDENCE LEVEL=.9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
10				
1	0.121997	87.267880	4.923	1.07882
2	0.189064	13.110973	2.690	1.03346
3	0.230805	7.129313	1.980	1.01557
4	0.259431	5.254302	1.631	1.00797
5	0.280414	4.366387	1.423	1.00411
6	0.296526	3.852831	1.283	1.00205
7	0.309323	3.519042	1.183	1.00092
8	0.319754	3.284909	1.107	1.00034
9	0.328431	3.111643	1.048	1.00007
10	0.335769	2.978237	1.000	1.00000
12	0.347519	2.786237	0.927	1.00018
14	0.356523	2.654653	0.875	1.00057
16	0.363652	2.558812	0.835	1.00103
18	0.369440	2.485859	0.803	1.00150
20	0.374235	2.428455	0.773	1.00197
25	0.383266	2.327170	0.732	1.00302
30	0.389597	2.261028	0.701	1.00390
35	0.394284	2.214422	0.678	1.00462
40	0.397895	2.179802	0.661	1.00523
45	0.400763	2.153067	0.648	1.00573
50	0.403095	2.131797	0.637	1.00617
55	0.405031	2.114469	0.629	1.00654
60	0.406662	2.100080	0.621	1.00687

CONFIDENCE LEVEL=.9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



12	CF	C-1	C-2	A-2/A-1	REDUCTION
	1	0.127725	86.393161	5.2111	1.08249
	2	0.198742	12.903173	2.8663	1.03592
	3	0.243464	6.985224	2.116	1.01849
	4	0.274455	5.131833	1.749	1.01024
	5	0.297376	4.253340	1.529	1.00588
	6	0.315113	3.744892	1.381	1.00338
	7	0.329295	3.414169	1.274	1.00190
	8	0.340922	3.181998	1.193	1.00101
	9	0.350646	3.010044	1.130	1.00048
	10	0.358907	2.877543	1.078	1.00018
	12	0.372213	2.686637	1.000	1.00000
	14	0.382479	2.555625	0.943	1.00011
	16	0.390654	2.460073	0.899	1.00035
	18	0.397323	2.387262	0.865	1.00066
	20	0.402871	2.329913	0.837	1.00098
	25	0.413379	2.228579	0.787	1.00178
	30	0.420795	2.162288	0.752	1.00250
	35	0.426312	2.115512	0.727	1.00311
	40	0.430579	2.080727	0.708	1.00364
	45	0.433979	2.053839	0.693	1.00409
	50	0.436752	2.032429	0.681	1.00448
	55	0.439057	2.014977	0.671	1.00481
	60	0.441003	2.000477	0.663	1.00511

CONFIDENCE LEVEL=.9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

14	DF	C-1	C-2	A-2/A-1	REDUCTION
	1	0.131950	85.788621	5.429	1.08516
	2	0.205930	12.757296	2.998	1.03853
	3	0.252923	6.884056	2.225	1.02067
	4	0.285745	5.044834	1.844	1.01210
	5	0.310186	4.172724	1.615	1.00741
	6	0.329211	3.667681	1.460	1.00461
	7	0.344503	3.338949	1.349	1.00287
	8	0.357099	3.108013	1.264	1.00176
	9	0.367676	2.936850	1.197	1.00103
	10	0.376696	2.804866	1.143	1.00057
	12	0.391294	2.614520	1.060	1.00011
	14	0.402621	2.483726	1.000	1.00000
	16	0.411683	2.388224	0.954	1.00007
	18	0.419105	2.315375	0.917	1.00023
	20	0.425302	2.257942	0.887	1.00044
	25	0.437096	2.136324	0.833	1.00103
	30	0.445467	2.089735	0.795	1.00161
	35	0.451722	2.042684	0.768	1.00215
	40	0.456578	2.000765	0.747	1.00258
	45	0.460457	1.980555	0.731	1.00298
	50	0.463628	1.958959	0.718	1.00333
	55	0.466269	1.941344	0.707	1.00363
	60	0.468504	1.926699	0.699	1.00391

CONFIDENCE LEVEL=.9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.135193	85.346558	5.602	1.08719
2	0.211475	12.649334	3.107	1.04057
3	0.260257	6.808769	2.513	1.02247
4	0.294535	4.979845	1.921	1.01365
5	0.320199	4.112329	1.685	1.00871
6	0.340270	3.609692	1.526	1.00570
7	0.356471	3.282335	1.411	1.00377
8	0.369866	3.052221	1.324	1.00249
9	0.381152	2.881560	1.254	1.00162
10	0.390806	2.749882	1.198	1.00103
12	0.406492	2.559810	1.112	1.00035
14	0.418721	2.425056	1.049	1.00007
16	0.428544	2.333484	1.000	1.00000
18	0.436618	2.260511	0.961	1.00005
20	0.443379	2.202932	0.930	1.00016
25	0.456301	2.100925	0.872	1.00057
30	0.465519	2.033973	0.833	1.00103
35	0.472435	1.986605	0.803	1.00146
40	0.477820	1.951303	0.781	1.00185
45	0.482133	1.923965	0.764	1.00220
50	0.485667	1.902165	0.750	1.00251
55	0.488615	1.884570	0.738	1.00279
60	0.491113	1.869569	0.728	1.00304

CONFIDENCE LEVEL = .9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
19	0.137760	85.009563	5.742	1.08878
2	0.215882	12.566242	3.197	1.04221
3	0.266108	6.750572	2.386	1.02395
4	0.301573	4.929458	1.986	1.01494
5	0.328240	4.065392	1.745	1.00933
6	0.349177	3.564533	1.582	1.00666
7	0.366136	3.238168	1.464	1.00459
8	0.380200	3.008626	1.374	1.00313
9	0.392084	2.838296	1.303	1.00220
10	0.402275	2.706800	1.245	1.00150
12	0.418890	2.516844	1.156	1.00066
14	0.431896	2.386035	1.090	1.00023
16	0.442378	2.290332	1.040	1.00005
18	0.451020	2.217197	1.000	1.00000
20	0.458275	2.159443	0.967	1.00003
25	0.472196	2.057006	0.907	1.00029
30	0.482170	1.989670	0.865	1.00064
35	0.489681	1.941972	0.834	1.00100
40	0.495544	1.906336	0.811	1.00133
45	0.500253	1.878806	0.792	1.00164
50	0.504117	1.856796	0.777	1.00192
55	0.507348	1.838818	0.765	1.00217
60	0.510088	1.823856	0.754	1.00239

CONFIDENCE LEVEL = .9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
20				
1	0.139842	84.744339	5.859	1.09007
2	0.219469	12.500332	3.271	1.04355
3	0.270383	6.704246	2.447	1.02518
4	0.307334	4.889250	2.040	1.01604
5	0.334840	4.027864	1.755	1.01080
6	0.356505	3.528367	1.630	1.00751
7	0.374104	3.202743	1.509	1.00533
8	0.388738	2.973613	1.417	1.00332
9	0.401132	2.803506	1.345	1.00274
10	0.411784	2.672117	1.285	1.00197
12	0.429201	2.482184	1.194	1.00092
14	0.442881	2.351271	1.127	1.00044
16	0.453940	2.255409	1.075	1.00016
18	0.463032	2.182094	1.034	1.00003
20	0.470775	2.124155	1.000	1.00000
25	0.485584	2.021279	0.937	1.00013
30	0.496239	1.933558	0.894	1.00008
35	0.504286	1.865531	0.862	1.00006
40	0.510586	1.806666	0.837	1.00003
45	0.515655	1.754845	0.819	1.00002
50	0.519824	1.709627	0.802	1.00001
55	0.523314	1.670463	0.789	1.00001
60	0.526278	1.636347	0.778	1.00000

CONFIDENCE LEVEL=.9  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
25				
1	0.143654	84.276825	6.078	1.09240
2	0.226062	12.382983	3.413	1.04603
3	0.279699	6.621391	2.565	1.02751
4	0.318007	4.817112	2.146	1.01816
5	0.347110	3.960360	1.894	1.01270
6	0.370171	3.463167	1.723	1.00921
7	0.389008	3.138752	1.599	1.00633
8	0.404750	2.910252	1.504	1.00517
9	0.418145	2.740442	1.428	1.00394
10	0.429706	2.609151	1.366	1.00303
12	0.448716	2.419085	1.271	1.00178
14	0.463752	2.287825	1.201	1.00103
16	0.475981	2.191336	1.146	1.00057
18	0.486143	2.117766	1.103	1.00029
20	0.494736	2.059375	1.067	1.00013
25	0.511392	1.955447	1.000	1.00000
30	0.523478	1.866818	0.953	1.00007
35	0.532669	1.803801	0.919	1.00002
40	0.539905	1.750149	0.892	1.00000
45	0.545755	1.707310	0.871	1.00000
50	0.550585	1.675039	0.853	1.00000
55	0.554642	1.643181	0.839	1.00000
60	0.558099	1.611631	0.826	1.00000

CONFIDENCE LEVEL=.9  
SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
30				
1	0.1462242	83.9723110	6.2231	1.09337
2	0.2305559	12.305691	3.514	1.04774
3	0.285737	6.566545	2.649	1.02915
4	0.3225348	4.769191	2.223	1.01968
5	0.355582	3.915383	1.966	1.01410
6	0.379641	3.419620	1.792	1.01050
7	0.399370	3.095916	1.665	1.00802
8	0.415918	2.867748	1.568	1.00623
9	0.430045	2.698055	1.490	1.00491
10	0.442277	2.566753	1.427	1.00390
12	0.462473	2.376455	1.330	1.00250
14	0.478530	2.244836	1.257	1.00161
16	0.491649	2.148139	1.201	1.00103
18	0.502596	2.073956	1.156	1.00064
20	0.511386	2.015160	1.119	1.00038
25	0.529993	1.910301	1.049	1.00007
30	0.543221	1.840372	1.000	1.00000
35	0.553337	1.791389	0.963	1.00004
40	0.561339	1.754279	0.933	1.00001
45	0.567832	1.725383	0.912	1.00002
50	0.573212	1.702242	0.894	1.00003
55	0.577745	1.683271	0.878	1.00005
60	0.581617	1.667435	0.865	1.00006

CONFIDENCE LEVEL = .9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
35				
1	0.148114	83.758352	6.345	1.09310
2	0.233322	12.250953	3.539	1.04839
3	0.290131	6.537565	2.713	1.03036
4	0.330707	4.733504	2.281	1.02083
5	0.361783	3.988328	2.020	1.01517
6	0.386591	3.388473	1.844	1.01149
7	0.406994	3.065225	1.716	1.00894
8	0.424153	2.837248	1.617	1.00708
9	0.438839	2.666759	1.539	1.00569
10	0.451585	2.532624	1.475	1.00462
12	0.472699	2.345700	1.376	1.00311
14	0.489552	2.213749	1.302	1.00213
16	0.503371	2.116693	1.245	1.00146
18	0.514941	2.042143	1.198	1.00100
20	0.524788	1.983001	1.160	1.00067
25	0.544064	1.877333	1.099	1.00022
30	0.558226	1.807216	1.038	1.00004
35	0.569107	1.757140	1.000	1.00000
40	0.577746	1.719519	0.970	1.00003
45	0.584782	1.690185	0.947	1.00009
50	0.590627	1.666652	0.927	1.00017
55	0.595565	1.647341	0.911	1.00026
60	0.599792	1.631204	0.897	1.00036

CONFIDENCE LEVEL = .9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
40	1 0.149531	83.559841	6.432	1.09595
	2 0.236296	12.210160	3.647	1.04994
	3 0.293473	6.458439	2.762	1.03130
	4 0.334790	4.709490	2.326	1.02172
	5 0.366518	3.859207	2.063	1.01601
	6 0.391908	3.365087	1.886	1.01228
	7 0.412937	3.042152	1.756	1.00968
	8 0.430477	2.814291	1.657	1.00778
	9 0.445603	2.644642	1.578	1.00634
	10 0.458757	2.513226	1.513	1.00523
	12 0.480601	2.332453	1.413	1.00364
	14 0.498093	2.190209	1.333	1.00258
	16 0.512478	2.092339	1.280	1.00185
	18 0.524553	2.017933	1.233	1.00133
	20 0.534855	1.958534	1.194	1.00096
	25 0.555095	1.852177	1.121	1.00040
	30 0.570035	1.781456	1.069	1.00014
	35 0.581558	1.730364	1.030	1.00003
	40 0.590738	1.692797	1.000	1.00000
	45 0.598236	1.663075	0.975	1.00002
	50 0.604481	1.639200	0.955	1.00006
	55 0.609768	1.619538	0.938	1.00012
	60 0.614304	1.603131	0.924	1.00019

CONFIDENCE LEVEL = .9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
45	1 0.150640	83.477724	6.501	1.09661
	2 0.233823	12.217853	3.693	1.05068
	3 0.296089	6.473831	2.802	1.03204
	4 0.338005	4.698339	2.363	1.02242
	5 0.370252	3.840483	2.098	1.01659
	6 0.396108	3.346332	1.919	1.01292
	7 0.417460	3.024173	1.789	1.01039
	8 0.435486	2.796335	1.689	1.00835
	9 0.450969	2.626723	1.609	1.00688
	10 0.464454	2.495243	1.544	1.00574
	12 0.486893	2.304260	1.443	1.00409
	14 0.504909	2.171757	1.368	1.00298
	16 0.519760	2.074117	1.309	1.00230
	18 0.532253	1.998990	1.262	1.00184
	20 0.542934	1.939280	1.223	1.00152
	25 0.563582	1.832325	1.149	1.00038
	30 0.579580	1.761083	1.096	1.00025
	35 0.591651	1.710040	1.056	1.00009
	40 0.601296	1.671532	1.025	1.00002
	45 0.609193	1.641516	1.000	1.00000
	50 0.615786	1.617339	0.979	1.00001
	55 0.621378	1.597459	0.962	1.00003
	60 0.626184	1.580813	0.947	1.00009

CONFIDENCE LEVEL = .9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
50				
1	0.151532	83.380767	6.5536	1.09714
2	0.239802	12.153430	3.731	1.05128
3	0.2998217	6.4557822	2.834	1.03264
4	0.340602	4.673777	2.353	1.02301
5	0.373273	3.825515	2.127	1.01725
6	0.399510	3.32309	1.947	1.01346
7	0.421208	3.009763	1.816	1.01079
8	0.439553	2.782028	1.716	1.00883
9	0.455330	2.612344	1.636	1.00734
10	0.469088	2.480802	1.570	1.00617
12	0.492022	2.289631	1.469	1.00448
14	0.510475	2.156302	1.393	1.00333
16	0.525717	2.059026	1.334	1.00251
18	0.538562	1.983655	1.287	1.00192
20	0.549565	1.923729	1.247	1.00147
25	0.571299	1.816231	1.172	1.00076
30	0.587461	1.744354	1.119	1.00038
35	0.600005	1.693115	1.079	1.00017
40	0.610054	1.654311	1.047	1.00006
45	0.618300	1.622941	1.021	1.00001
50	0.625197	1.599495	1.000	1.00000
55	0.631058	1.579376	0.982	1.00001
60	0.636103	1.562515	0.967	1.00003

CONFIDENCE LEVEL=.9  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
55				
1	0.152266	83.301360	6.603	1.09758
2	0.241089	12.132911	3.762	1.05173
3	0.2999962	6.444300	2.865	1.03314
4	0.342743	4.660822	2.418	1.02350
5	0.375766	3.812267	2.151	1.01772
6	0.402321	3.3320378	1.970	1.01391
7	0.424309	3.037368	1.839	1.01122
8	0.442920	2.770253	1.738	1.00924
9	0.458944	2.600550	1.652	1.00773
10	0.472932	2.468950	1.592	1.00654
12	0.496284	2.277611	1.499	1.00499
14	0.515107	2.144684	1.415	1.00363
16	0.530681	2.046600	1.353	1.00279
18	0.543828	1.971035	1.308	1.00217
20	0.555103	1.910900	1.268	1.00170
25	0.577430	1.802966	1.193	1.00093
30	0.594081	1.730863	1.139	1.00051
35	0.607039	1.679079	1.098	1.00026
40	0.617441	1.639668	1.066	1.00012
45	0.625994	1.609327	1.040	1.00005
50	0.633162	1.584640	1.013	1.00001
55	0.639261	1.564305	1.000	1.00000
60	0.644520	1.547251	0.984	1.00001

CONFIDENCE LEVEL=.9  
SHORTEST UNBIASED CONFIDENCE INTERVAL



60	DF	C-1	C-2	A-2/A-1	REDUCTION
	2	0.242166	12.115858	3.789	1.05220
	3	0.301424	6.430850	2.884	1.03356
	4	0.344539	4.650016	2.439	1.02391
	5	0.377859	3.803061	2.171	1.01812
	6	0.404682	3.310431	1.990	1.01429
	7	0.426916	2.988124	1.858	1.01159
	8	0.445754	2.760435	1.757	1.00959
	9	0.461988	2.590700	1.677	1.00807
1	10	0.476172	2.459047	1.611	1.00687
1	12	0.499881	2.267558	1.509	1.00511
1	14	0.519022	2.134455	1.433	1.00391
1	16	0.534883	2.036190	1.374	1.00304
1	18	0.548289	1.960445	1.326	1.00239
2	20	0.559802	1.900136	1.286	1.00190
2	25	0.582644	1.791798	1.210	1.00109
3	30	0.599724	1.719345	1.156	1.00062
3	35	0.613044	1.667244	1.115	1.00036
4	40	0.623760	1.627359	1.083	1.00019
4	45	0.632586	1.596975	1.056	1.00006
5	50	0.639994	1.572072	1.034	1.00003
5	55	0.646307	1.551543	1.016	1.00001
6	60	0.651757	1.534314	1.000	1.00000

CONFIDENCE LEVEL = .9  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0001544	647.786011	1.0000	.00000
2	0.0002183	57.536219	0.512	.01550
3	0.0002500	27.847000	0.361	.03245
4	0.0003670	19.784736	0.291	.04427
5	0.0003775	16.236232	0.251	.05250
6	0.0003845	14.277513	0.225	.05845
7	0.0003894	13.046022	0.208	.06292
8	0.0003930	12.203490	0.195	.06639
9	0.0003958	11.592171	0.185	.06915
10	0.0003980	11.128936	0.178	.07140
12	0.0003012	11.0474647	0.166	.07434
14	0.0003035	10.035141	0.159	.07734
16	0.0003052	9.719396	0.153	.07923
18	0.0003064	9.482843	0.148	.08072
20	0.0003075	9.298174	0.145	.08192
35	0.0003092	8.976531	0.139	.08409
50	0.0003104	8.769499	0.135	.08555
75	0.0003112	8.625140	0.132	.08660
100	0.0003118	8.518755	0.130	.08738
150	0.0003123	8.437104	0.128	.08800
200	0.0003127	8.372467	0.127	.08849
300	0.0003130	8.320014	0.126	.08890
500	0.0003132	8.276616	0.125	.08923

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.017330	456.970852	1.952	.01550
3	0.025641	39.000000	1.000	.00000
4	0.030093	18.432568	0.703	.00293
5	0.032765	12.897747	0.564	.01003
6	0.034516	10.473505	0.484	.01544
7	0.035742	9.139453	0.422	.01691
8	0.036645	8.302287	0.397	.02356
9	0.037335	7.730388	0.371	.02657
10	0.037879	7.315383	0.351	.02903
12	0.038318	7.002091	0.335	.03119
14	0.038982	6.559170	0.312	.03454
16	0.039461	6.261938	0.296	.03708
18	0.039822	6.048871	0.284	.03905
20	0.040103	5.888740	0.275	.04064
25	0.040328	5.764037	0.267	.04193
30	0.040735	5.546924	0.255	.04333
35	0.041007	5.407253	0.246	.04598
40	0.041201	5.309898	0.240	.04718
45	0.041346	5.238147	0.236	.04809
50	0.041459	5.183093	0.232	.04881
55	0.041550	5.139517	0.230	.04939
60	0.041624	5.104166	0.227	.04986
60	0.041686	5.074914	0.225	.05026

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.035910	400.075453	2.768	1.03245
1	0.054252	33.229771	1.422	1.00398
2	0.064770	13.439183	1.000	1.00000
3	0.071406	10.680322	0.800	1.00149
4	0.075925	8.602512	0.685	1.00417
5	0.079186	7.461230	0.610	1.00691
6	0.081643	6.745892	0.558	1.00942
7	0.083559	6.257613	0.520	1.01164
8	0.085092	5.903916	0.491	1.01358
9	0.086347	5.636269	0.468	1.01529
10	0.087275	5.458639	0.433	1.01810
11	0.087968	5.300532	0.409	1.02103
12	0.088407	4.823775	0.392	1.02203
13	0.089161	4.687357	0.378	1.02354
14	0.092301	4.581132	0.367	1.02475
15	0.093552	4.506212	0.348	1.02703
16	0.094596	4.277263	0.335	1.02866
17	0.095005	4.194348	0.326	1.02932
18	0.095464	4.133235	0.319	1.03073
19	0.095323	4.086375	0.314	1.03146
20	0.096112	4.049267	0.310	1.03204
25	0.096348	4.019164	0.307	1.03253
30	0.096546	3.994254	0.304	1.03294

CONFIDENCE LEVEL = .95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.050544	374.465381	3.439	1.04427
1	0.077533	30.520113	1.774	1.01003
2	0.093630	14.004511	1.250	1.00149
3	0.104118	9.604530	1.000	1.00000
4	0.111445	7.687313	0.853	1.00070
5	0.116838	6.635425	0.761	1.00209
6	0.120969	5.976550	0.695	1.00364
7	0.124231	5.526989	0.646	1.00517
8	0.126872	5.201415	0.609	1.00659
9	0.129052	4.955084	0.579	1.00789
10	0.132440	4.607562	0.535	1.01015
11	0.134951	4.374448	0.504	1.01200
12	0.136885	4.207377	0.481	1.01353
13	0.138421	4.081823	0.463	1.01481
14	0.139669	3.984060	0.449	1.01590
15	0.141962	3.813341	0.424	1.01799
16	0.143524	3.704329	0.407	1.01950
17	0.144657	3.627982	0.395	1.02063
18	0.145515	3.571721	0.386	1.02150
19	0.146188	3.528545	0.380	1.02221
20	0.146730	3.494365	0.374	1.02278
25	0.147176	3.466636	0.370	1.02326
30	0.147549	3.443689	0.366	1.02366

CONFIDENCE LEVEL = .95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.061591	360.339161	3.987	1.05250
1	0.095479	28.971321	2.067	1.01544
2	0.116245	13.170881	1.460	1.00417
3	0.130084	8.973073	1.169	1.00070
4	0.139931	7.146382	1.000	1.00000
5	0.147286	6.144325	0.889	1.00038
6	0.152987	5.517677	0.811	1.00119
7	0.157534	5.089822	0.754	1.00215
8	0.161245	4.779977	0.709	1.00313
9	0.164331	4.545538	0.674	1.00409
10	0.169169	4.214753	0.621	1.00535
11	0.172787	3.992830	0.584	1.00737
12	0.175594	3.833743	0.556	1.00867
13	0.177837	3.714167	0.535	1.00979
14	0.179669	3.621033	0.518	1.01075
15	0.183055	3.458836	0.487	1.01264
16	0.185378	3.354447	0.467	1.01403
17	0.187070	3.281651	0.453	1.01509
18	0.188358	3.227995	0.442	1.01592
19	0.189371	3.186809	0.433	1.01659
20	0.190189	3.154200	0.427	1.01715
25	0.190862	3.127742	0.421	1.01761
30	0.191427	3.105845	0.417	1.01800

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.070040	351.528403	4.437	1.05843
1	0.109416	27.977992	2.313	1.01991
2	0.134026	12.628521	1.639	1.00691
3	0.150706	8.558853	1.314	1.00209
4	0.162739	6.789504	1.124	1.00038
5	0.171828	5.819757	1.000	1.00000
6	0.178940	5.212600	0.912	1.00023
7	0.184657	4.798374	0.847	1.00074
8	0.189353	4.498371	0.796	1.00137
9	0.193282	4.271348	0.756	1.00204
10	0.199482	3.950957	0.696	1.00338
11	0.204155	3.735926	0.653	1.00460
12	0.207804	3.581733	0.622	1.00569
13	0.210732	3.465801	0.597	1.00665
14	0.213134	3.375479	0.577	1.00749
15	0.217759	3.218119	0.542	1.00919
16	0.220680	3.116793	0.518	1.01047
17	0.222935	3.046105	0.501	1.01145
18	0.224657	2.993983	0.489	1.01224
19	0.226015	2.953973	0.479	1.01288
20	0.227113	2.922284	0.471	1.01341
25	0.228019	2.896569	0.465	1.01385
30	0.228780	2.875282	0.460	1.01423

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.076652	345.562509	4.813	1.06292
1	0.120449	27.289057	2.521	1.02356
2	0.148238	12.248425	1.791	1.00942
3	0.167321	8.266601	1.439	1.00364
4	0.181236	6.536507	1.232	1.00119
5	0.191843	5.588472	1.096	1.00023
6	0.200204	4.994909	1.000	1.00000
7	0.206968	4.589914	0.928	1.00015
8	0.212556	4.296547	0.872	1.00049
9	0.217252	4.074502	0.828	1.00092
10	0.224707	3.761041	0.762	1.00190
12	0.230362	3.550572	0.714	1.00287
14	0.234802	3.399591	0.679	1.00377
16	0.238380	3.286033	0.651	1.00459
18	0.241325	3.197532	0.629	1.00532
20	0.246826	3.043272	0.589	1.00684
25	0.250643	2.943886	0.563	1.00800
30	0.253447	2.874520	0.544	1.00892
35	0.255594	2.823358	0.530	1.00966
40	0.257292	2.784066	0.519	1.01026
45	0.258667	2.752942	0.510	1.01077
50	0.259804	2.727679	0.502	1.01119
55	0.260760	2.706763	0.496	1.01156
60				

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.081944	341.279189	5.129	1.06639
1	0.129360	26.784699	2.698	1.02657
2	0.159805	11.967661	1.922	1.01164
3	0.180930	8.049519	1.548	1.00517
4	0.196471	6.347833	1.327	1.00215
5	0.208404	5.415437	1.181	1.00074
6	0.217869	4.831658	1.077	1.00015
7	0.225568	4.433260	1.000	1.00000
8	0.231957	4.144612	0.940	1.00010
9	0.237347	3.926089	0.892	1.00034
10	0.245947	3.617494	0.820	1.00101
12	0.252509	3.410197	0.768	1.00176
14	0.257683	3.261426	0.729	1.00249
16	0.261869	3.149487	0.699	1.00318
18	0.265327	3.062217	0.675	1.00382
20	0.271809	2.910024	0.631	1.00517
25	0.276329	2.811908	0.602	1.00623
30	0.279662	2.743394	0.581	1.00708
35	0.282221	2.692841	0.565	1.00777
40	0.284248	2.654003	0.553	1.00834
45	0.285894	2.623230	0.543	1.00882
50	0.287256	2.598247	0.533	1.00923
55	0.288403	2.577560	0.529	1.00958
60				

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.086265	338.066263	5.398	1.06915
2	0.136689	26.400155	2.851	1.02508
3	0.169379	11.751994	2.038	1.01358
4	0.192255	7.881990	1.643	1.00659
5	0.209206	6.201733	1.410	1.00313
6	0.222303	5.281128	1.256	1.00137
7	0.232745	4.704634	1.146	1.00049
8	0.241277	4.311148	1.064	1.00010
9	0.248386	4.025994	1.000	1.00000
10	0.254404	3.810064	0.949	1.00007
12	0.264048	3.505020	0.872	1.00048
14	0.271442	3.300009	0.816	1.00103
16	0.277296	3.152813	0.775	1.00162
18	0.282049	3.042012	0.742	1.00220
20	0.285984	2.955598	0.716	1.00275
25	0.293393	2.804818	0.669	1.00394
30	0.298581	2.707548	0.637	1.00491
35	0.302419	2.639589	0.615	1.00569
40	0.305374	2.589424	0.597	1.00634
45	0.307718	2.550871	0.584	1.00688
50	0.309625	2.520315	0.573	1.00733
55	0.311205	2.495502	0.565	1.00772
60	0.312537	2.474951	0.557	1.00806

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.089855	335.573227	5.630	1.07140
2	0.142814	26.097600	2.985	1.03119
3	0.177422	11.581242	2.139	1.01529
4	0.201813	7.748825	1.727	1.00789
5	0.219996	6.085265	1.484	1.00409
6	0.234118	5.173798	1.329	1.00204
7	0.245429	4.602949	1.208	1.00092
8	0.254706	4.213238	1.121	1.00034
9	0.262463	3.930754	1.054	1.00007
10	0.269049	3.716792	1.000	1.00000
12	0.279644	3.414419	0.919	1.00018
14	0.297803	3.211102	0.860	1.00057
16	0.294285	3.065056	0.816	1.00103
18	0.299564	2.955076	0.781	1.00151
20	0.303946	2.869269	0.753	1.00197
25	0.312225	2.719467	0.703	1.00302
30	0.318046	2.622761	0.669	1.00390
35	0.322364	2.555160	0.645	1.00462
40	0.325697	2.505237	0.626	1.00523
45	0.328347	2.466857	0.612	1.00574
50	0.330504	2.436428	0.600	1.00617
55	0.332295	2.411712	0.591	1.00654
60	0.333806	2.391236	0.583	1.00686

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
12	1 0.0955469	331.966641	6.009	1.07484
	2 0.1522458	25.652597	3.206	1.03454
	3 0.190163	11.328223	2.307	1.01810
	4 0.217035	7.550567	1.869	1.01015
	5 0.237262	5.911257	1.609	1.00585
	6 0.253103	5.012993	1.437	1.00338
	7 0.265884	4.450245	1.313	1.00190
	8 0.276434	4.065908	1.220	1.00101
	9 0.285305	3.787190	1.147	1.00048
	10 0.292876	3.575978	1.089	1.00018
	12 0.305131	3.277277	1.000	1.00000
	14 0.314640	3.076236	0.936	1.00011
	16 0.322242	2.931695	0.887	1.00035
	18 0.328463	2.822759	0.849	1.00066
	20 0.333653	2.737702	0.819	1.00098
	25 0.343515	2.589047	0.763	1.00178
	30 0.350499	2.492949	0.723	1.00250
	35 0.355708	2.425698	0.697	1.00311
	40 0.359745	2.375939	0.677	1.00364
	45 0.362966	2.337744	0.660	1.00409
	50 0.365596	2.307404	0.647	1.00448
	55 0.367784	2.282746	0.637	1.00482
	60 0.369633	2.262310	0.628	1.00511

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
14	1 0.099650	329.491131	6.305	1.07734
	2 0.159695	25.341484	3.381	1.03708
	3 0.199787	11.149880	2.442	1.02031
	4 0.228600	7.410093	1.984	1.01200
	5 0.250449	5.787483	1.712	1.00737
	6 0.267671	4.898248	1.530	1.00460
	7 0.281645	4.340989	1.400	1.00287
	8 0.293238	3.960253	1.302	1.00176
	9 0.303029	3.684025	1.225	1.00103
	10 0.311420	3.474604	1.163	1.00057
	12 0.3225073	3.178238	1.068	1.00011
	14 0.335730	2.978588	1.000	1.00000
	16 0.344293	2.834923	0.948	1.00007
	18 0.351333	2.726562	0.907	1.00023
	20 0.357227	2.641893	0.874	1.00044
	25 0.368487	2.493757	0.813	1.00104
	30 0.376510	2.397865	0.772	1.00161
	35 0.382524	2.330684	0.742	1.00213
	40 0.387201	2.280982	0.719	1.00258
	45 0.390944	2.242712	0.702	1.00298
	50 0.394008	2.212333	0.687	1.00333
	55 0.396562	2.197630	0.675	1.00364
	60 0.398725	2.167146	0.665	1.00391

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
16	1 0.1028882	327.691015	6.542	1.07923
	2 0.165320	25.111975	3.523	1.03905
	3 0.207307	11.017484	2.553	1.02208
	4 0.237678	7.305386	2.079	1.01353
	5 0.260842	5.694939	1.797	1.00867
	6 0.279194	4.812238	1.609	1.00569
	7 0.294153	4.258916	1.473	1.00377
	8 0.306614	3.880734	1.371	1.00249
	9 0.317177	3.606250	1.291	1.00162
	10 0.326258	3.398063	1.226	1.00103
	12 0.341100	3.103262	1.127	1.00035
	14 0.352743	2.904499	1.055	1.00007
	16 0.362141	2.761359	1.000	1.00000
	18 0.369894	2.653313	0.957	1.00005
	20 0.376407	2.568833	0.921	1.00016
	25 0.388905	2.420877	0.857	1.00058
	30 0.397860	2.324975	0.813	1.00103
	35 0.404600	2.257714	0.781	1.00146
	40 0.409860	2.207908	0.756	1.00185
	45 0.414080	2.169530	0.737	1.00220
	50 0.417543	2.139045	0.722	1.00252
	55 0.420436	2.114242	0.709	1.00279
	60 0.422890	2.093665	0.698	1.00304

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
18	1 0.105454	326.325047	6.736	1.08072
	2 0.169816	24.935802	3.640	1.04064
	3 0.213340	10.915344	2.646	1.02354
	4 0.244988	7.224343	2.159	1.01481
	5 0.269239	5.623133	1.869	1.00979
	6 0.288534	4.745363	1.675	1.00665
	7 0.304318	4.194989	1.536	1.00459
	8 0.317512	3.818699	1.430	1.00318
	9 0.328730	3.545489	1.347	1.00220
	10 0.338401	3.338189	1.280	1.00151
	12 0.354263	3.044480	1.177	1.00066
	14 0.366762	2.846300	1.103	1.00023
	16 0.376887	2.703475	1.045	1.00005
	18 0.385269	2.595592	1.000	1.00000
	20 0.392328	2.511185	0.963	1.00003
	25 0.405931	2.363215	0.895	1.00029
	30 0.415724	2.267184	0.849	1.00064
	35 0.423122	2.199763	0.815	1.00100
	40 0.428913	2.149794	0.789	1.00133
	45 0.433572	2.111263	0.769	1.00154
	50 0.437403	2.080636	0.752	1.00192
	55 0.440609	2.055704	0.738	1.00217
	60 0.443331	2.035010	0.727	1.00240

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
20	1 0.107548	3 25.254097	6.897	1.08192
	2 0.173490	24.796364	3.739	1.04193
	3 0.218287	10.834170	2.724	1.02475
	4 0.251000	7.159766	2.227	1.01590
	5 0.276164	5.565798	1.931	1.01075
	6 0.296254	4.691874	1.733	1.00749
	7 0.312741	4.143781	1.590	1.00532
	8 0.326561	3.768940	1.482	1.00382
	9 0.338341	3.496693	1.396	1.00275
	10 0.348521	3.290053	1.327	1.00197
	12 0.365270	2.997128	1.222	1.00098
	14 0.378517	2.799339	1.144	1.00044
	16 0.389282	2.656699	1.085	1.00016
	18 0.398218	2.548887	1.038	1.00003
	20 0.405764	2.464484	1.000	1.00000
	25 0.420356	2.316389	0.929	1.00013
	30 0.430907	2.220162	0.881	1.00039
	35 0.438905	2.152536	0.845	1.00067
	40 0.445133	2.102374	0.818	1.00096
	45 0.450245	2.063664	0.796	1.00123
	50 0.454415	2.032378	0.779	1.00147
	55 0.457910	2.007802	0.765	1.00170
	60 0.460883	1.986979	0.752	1.00190

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
25	1 0.111402	3 23.375976	7.203	1.08409
	2 0.180280	24.548811	3.928	1.04433
	3 0.227469	10.689298	2.875	1.02703
	4 0.262203	7.044118	2.360	1.01799
	5 0.289115	5.462844	2.052	1.01264
	6 0.310741	4.595610	1.946	1.00919
	7 0.328594	4.051439	1.697	1.00684
	8 0.343640	3.679051	1.584	1.00517
	9 0.356529	3.408399	1.495	1.00394
	10 0.367719	3.202820	1.422	1.00302
	12 0.386243	2.911085	1.311	1.00178
	14 0.401001	2.713802	1.230	1.00104
	16 0.413074	2.571319	1.167	1.00058
	18 0.423152	2.463475	1.117	1.00029
	20 0.431705	2.378936	1.076	1.00013
	25 0.448370	2.230302	1.000	1.00000
	30 0.460528	2.133465	0.947	1.00007
	35 0.469812	2.065256	0.908	1.00022
	40 0.477143	2.014560	0.879	1.00040
	45 0.483084	1.975374	0.855	1.00058
	50 0.487999	1.944162	0.835	1.00076
	55 0.492133	1.918707	0.819	1.00093
	60 0.495662	1.897544	0.806	1.00110

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
30				
1	0.114032	322.159805	7.419	1.08555
2	0.184937	24.386285	4.063	1.04598
3	0.233794	10.593623	2.984	1.02863
4	0.269954	6.967454	2.457	1.01950
5	0.298112	5.394391	2.141	1.01403
6	0.320843	4.531440	1.930	1.01047
7	0.339687	3.989743	1.777	1.00800
8	0.355630	3.618868	1.661	1.00623
9	0.369338	3.349171	1.569	1.00491
10	0.381278	3.144201	1.494	1.00390
12	0.401131	2.853078	1.380	1.00250
14	0.417038	2.655970	1.295	1.00161
16	0.430112	2.513444	1.230	1.00103
18	0.441076	2.405443	1.178	1.00064
20	0.450418	2.320688	1.135	1.00039
25	0.468721	2.171419	1.056	1.00007
30	0.482173	2.073944	1.000	1.00000
35	0.492506	2.005146	0.959	1.00004
40	0.500705	1.953925	0.927	1.00014
45	0.507377	1.914271	0.901	1.00025
50	0.512916	1.882644	0.881	1.00038
55	0.517591	1.856820	0.863	1.00051
60	0.521591	1.835327	0.849	1.00063

CONFIDENCE LEVEL = .95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
35				
1	0.115940	321.308932	7.579	1.08660
2	0.183323	24.271451	4.164	1.04718
3	0.238416	10.525751	3.067	1.02982
4	0.275635	6.912914	2.530	1.02063
5	0.304725	5.345586	2.209	1.01509
6	0.328288	4.485605	1.994	1.01145
7	0.347884	3.945601	1.839	1.00892
8	0.364512	3.575743	1.721	1.00708
9	0.378847	3.306669	1.627	1.00569
10	0.391365	3.102079	1.551	1.00462
12	0.412252	2.811292	1.434	1.00311
14	0.429059	2.614218	1.348	1.00213
16	0.442926	2.471576	1.281	1.00146
18	0.454594	2.363384	1.227	1.00100
20	0.464568	2.278399	1.183	1.00067
25	0.484202	2.128510	1.101	1.00022
30	0.498717	2.030433	1.043	1.00004
35	0.509921	1.961089	1.000	1.00000
40	0.518848	1.909381	0.967	1.00003
45	0.526139	1.869296	0.940	1.00009
50	0.532210	1.837285	0.918	1.00017
55	0.537348	1.811119	0.900	1.00026
60	0.541754	1.789321	0.884	1.00036

CONFIDENCE LEVEL = .95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
40		320.680600	7.703	1.08738
1	0.117388	24.186023	4.242	1.04809
2	0.190907	10.475100	3.132	1.03073
3	0.241940	6.872132	2.588	1.02150
4	0.279977	5.309034	2.263	1.01592
5	0.309790	4.451227	2.046	1.01224
6	0.334003	3.912452	1.888	1.00966
7	0.354188	3.543318	1.768	1.00777
8	0.371355	3.274678	1.674	1.00634
9	0.386186	3.070340	1.597	1.00523
10	0.399164	2.779746	1.478	1.00364
12	0.420877	2.582641	1.390	1.00258
14	0.438408	2.439859	1.322	1.00185
16	0.452917	2.331473	1.267	1.00133
18	0.465161	2.246270	1.223	1.00096
20	0.475653	2.095807	1.138	1.00040
25	0.496386	1.997134	1.079	1.00014
30	0.511790	1.927346	1.035	1.00003
35	0.523730	1.875197	1.000	1.00000
40	0.533277	1.834720	0.972	1.00002
45	0.541098	1.802362	0.949	1.00006
50	0.547628	1.775884	0.930	1.00012
55	0.553167	1.753806	0.914	1.00019
60	0.557927			

CONFIDENCE LEVEL=.95  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
45		320.157773	7.801	1.08800
1	0.118524	24.119996	4.305	1.04881
2	0.192935	10.435358	3.183	1.03146
3	0.244716	6.840486	2.635	1.02221
4	0.283403	5.280635	2.307	1.01655
5	0.313793	4.424489	2.087	1.01238
6	0.338527	3.886642	1.929	1.01026
7	0.359187	3.518049	1.808	1.00834
8	0.376789	3.249725	1.712	1.00688
9	0.392023	3.045562	1.634	1.00574
10	0.405374	2.755079	1.514	1.00409
12	0.427763	2.557914	1.425	1.00298
14	0.445889	2.414989	1.356	1.00220
16	0.460929	2.306420	1.301	1.00164
18	0.473650	2.221015	1.256	1.00123
20	0.484575	2.070033	1.170	1.00058
25	0.506233	1.970921	1.109	1.00025
30	0.522392	1.900640	1.064	1.00009
35	0.534961	1.848095	1.029	1.00002
40	0.545042	1.807266	1.000	1.00000
45	0.553322	1.774592	0.976	1.00001
50	0.560252	1.747832	0.957	1.00005
55	0.566142	1.725501	0.940	1.00009
60	0.571214			

CONFIDENCE LEVEL=.95  
SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
50				
1	0.119439	319.815230	7.881	1.08849
2	0.194571	24.067439	4.356	1.04939
3	0.246958	10.404563	3.226	1.03204
4	0.286175	6.815217	2.673	1.02278
5	0.317038	5.257935	2.343	1.01715
6	0.342198	4.403097	2.122	1.01341
7	0.363248	3.865976	1.962	1.01077
8	0.381209	3.497801	1.840	1.00882
9	0.396776	3.229715	1.744	1.00733
10	0.410437	3.025680	1.665	1.00617
12	0.433387	2.735261	1.545	1.00448
14	0.452011	2.538023	1.455	1.00333
16	0.467498	2.394960	1.386	1.00252
18	0.480622	2.286222	1.330	1.00192
20	0.491913	2.200634	1.284	1.00147
25	0.514360	2.049186	1.197	1.00076
30	0.531168	1.949635	1.136	1.00038
35	0.544281	1.878953	1.089	1.00017
40	0.554828	1.826058	1.053	1.00006
45	0.563510	1.784911	1.024	1.00001
50	0.570791	1.751953	1.000	1.00000
55	0.576992	1.724938	0.980	1.00001
60	0.582340	1.702376	0.962	1.00003

CONFIDENCE LEVEL = .95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
55				
1	0.120192	319.504692	7.947	1.08890
2	0.195918	24.024616	4.399	1.04986
3	0.248808	10.379024	3.261	1.03253
4	0.288464	6.794574	2.705	1.02326
5	0.319719	5.239375	2.373	1.01761
6	0.345236	4.385594	2.151	1.01385
7	0.366612	3.849056	1.990	1.01119
8	0.384875	3.481212	1.868	1.00923
9	0.400721	3.213311	1.771	1.00772
10	0.414643	3.009371	1.692	1.00654
12	0.438069	2.718996	1.571	1.00482
14	0.457116	2.521672	1.481	1.00364
16	0.472983	2.378481	1.411	1.00279
18	0.486451	2.269588	1.354	1.00217
20	0.498057	2.183835	1.308	1.00170
25	0.521184	2.031969	1.220	1.00093
30	0.538555	1.932026	1.158	1.00051
35	0.552145	1.860992	1.112	1.00026
40	0.563100	1.807774	1.075	1.00012
45	0.572137	1.766340	1.045	1.00005
50	0.579731	1.733126	1.021	1.00001
55	0.586208	1.705879	1.000	1.00000
60	0.591803	1.683108	0.982	1.00001

CONFIDENCE LEVEL = .95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
60	1 0.120822	3 19.247614	8.003	1.08923
	2 0.197048	23.989052	4.435	1.05026
	3 0.250360	10.357786	3.292	1.03294
	4 0.290386	6.777394	2.733	1.02366
	5 0.321974	5.223918	2.399	1.01800
	6 0.347792	4.371007	2.176	1.01423
	7 0.369445	3.834947	2.014	1.01156
	8 0.387964	3.467373	1.892	1.00958
	9 0.404048	3.199619	1.794	1.00806
	10 0.418194	2.995752	1.715	1.00686
	12 0.442026	2.705382	1.593	1.00511
	14 0.461436	2.507993	1.503	1.00391
	16 0.477631	2.364682	1.432	1.00304
	18 0.491398	2.255649	1.376	1.00240
	20 0.503277	2.169746	1.326	1.00190
	25 0.526997	2.017506	1.241	1.00110
	30 0.544862	1.917210	1.178	1.00063
	35 0.558871	1.845857	1.131	1.00036
	40 0.570188	1.792330	1.094	1.00019
	45 0.579542	1.750658	1.064	1.00009
	50 0.587414	1.717210	1.039	1.00003
	55 0.594139	1.689753	1.018	1.00001
	60 0.599955	1.666791	1.000	1.00000

CONFIDENCE LEVEL=.95  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.000386	593.157068	1.000	1.00000
2	0.000551	117.518342	0.506	1.01334
3	0.000634	46.324771	0.350	1.02956
4	0.000681	29.941493	0.277	1.03945
5	0.000710	23.293546	0.236	1.04712
6	0.000729	19.798581	0.210	1.05270
7	0.000743	17.671127	0.191	1.05690
8	0.000753	16.249369	0.178	1.06016
9	0.000760	15.235697	0.168	1.06275
10	0.000767	14.478093	0.160	1.06487
12	0.000775	13.422602	0.149	1.06810
14	0.000781	12.726222	0.141	1.07045
16	0.000786	12.231405	0.135	1.07222
18	0.000789	11.862426	0.131	1.07362
20	0.000792	11.576903	0.127	1.07474
25	0.000797	11.083555	0.121	1.07677
30	0.000800	10.768763	0.117	1.07814
35	0.000802	10.550619	0.114	1.07912
40	0.000804	10.390452	0.112	1.07985
45	0.000805	10.267936	0.111	1.08043
50	0.000806	10.171180	0.109	1.08089
55	0.000807	10.092895	0.108	1.08126
60	0.000808	10.028141	0.107	1.08158

CONFIDENCE LEVEL = .975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.008509	1814.470236	1.975	1.01334
3	0.012658	78.999990	1.000	1.00000
4	0.014969	30.360227	0.691	1.00369
5	0.016379	19.295986	0.545	1.00541
6	0.017310	14.835648	0.462	1.01459
7	0.017963	12.500632	0.408	1.01889
8	0.018445	11.083573	0.372	1.02243
9	0.018813	10.138437	0.345	1.02534
10	0.019102	9.465788	0.324	1.02777
12	0.019336	8.963681	0.308	1.02981
14	0.019689	8.265831	0.284	1.03306
16	0.019943	7.804932	0.268	1.03551
18	0.020134	7.478327	0.256	1.03742
20	0.020282	7.235001	0.247	1.03895
25	0.020401	7.046301	0.239	1.04020
30	0.020615	6.721894	0.226	1.04252
35	0.020758	6.514763	0.218	1.04411
40	0.020860	6.371263	0.212	1.04526
45	0.020936	6.266003	0.207	1.04614
50	0.020995	6.185504	0.204	1.04683
55	0.021047	6.121956	0.201	1.04733
55	0.021081	6.070515	0.199	1.04784
60	0.021113	6.028024	0.197	1.04823

CONFIDENCE LEVEL = .975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
3	0.021587	1576.114013	2.854	1.02856
1	0.032938	66.804809	1.447	1.00369
2	0.039654	25.218272	1.000	1.00000
3	0.043963	15.831692	0.788	1.00144
4	0.046923	12.064265	0.666	1.00404
5	0.049068	10.097497	0.587	1.00671
6	0.050688	8.906158	0.533	1.00917
7	0.051952	8.112715	0.493	1.01135
8	0.052964	7.548531	0.462	1.01327
9	0.053793	7.127757	0.438	1.01494
10	0.054066	6.843447	0.403	1.01770
12	0.055998	6.157871	0.378	1.01987
14	0.056709	5.884810	0.360	1.02162
16	0.057269	5.681466	0.346	1.02304
18	0.057721	5.524247	0.335	1.02423
20	0.058544	5.252937	0.315	1.02647
25	0.059100	5.080052	0.302	1.02804
30	0.059500	4.960313	0.293	1.02920
35	0.059802	4.872300	0.286	1.03009
40	0.060037	4.805354	0.281	1.03080
45	0.060226	4.752353	0.277	1.03137
50	0.060381	4.709455	0.273	1.03184
55	0.060511	4.674024	0.271	1.03224
60				

CONFIDENCE LEVEL=.975  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
4	0.033399	1467.943355	3.606	1.03945
1	0.051824	61.053367	1.834	1.00941
2	0.063164	22.746388	1.269	1.00144
3	0.070685	14.147177	1.000	1.00000
4	0.075991	10.706317	0.844	1.00069
5	0.079918	8.913446	0.744	1.00205
6	0.082936	7.828815	0.674	1.00359
7	0.085325	7.107077	0.622	1.00509
8	0.087261	6.594205	0.582	1.00650
9	0.088861	6.211382	0.551	1.00779
10	0.091350	5.681228	0.505	1.01002
12	0.093196	5.331221	0.473	1.01136
14	0.094618	5.083425	0.449	1.01337
16	0.095748	4.898933	0.430	1.01464
18	0.096666	4.756310	0.416	1.01572
20	0.098352	4.510230	0.390	1.01779
25	0.099501	4.353444	0.373	1.01927
30	0.100333	4.244864	0.361	1.02038
35	0.100964	4.165238	0.352	1.02125
40	0.101459	4.104355	0.345	1.02194
45	0.101857	4.056297	0.339	1.02250
50	0.102185	4.017401	0.335	1.02297
55	0.102459	3.985276	0.331	1.02337
60				

CONFIDENCE LEVEL=.975  
SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
5	0.042931	1408.287555	4.239	1.04712
1	0.067405	57.770407	2.165	1.01459
2	0.082889	21.311510	1.502	1.00404
3	0.093403	13.159452	1.184	1.00069
4	0.100963	9.904623	1.000	1.00000
5	0.106647	8.210916	0.880	1.00038
6	0.111072	7.137137	0.797	1.00117
7	0.114612	6.506270	0.735	1.00213
8	0.117507	6.022626	0.687	1.00311
9	0.119918	5.662184	0.650	1.00406
10	0.123703	5.162021	0.594	1.00581
12	0.126539	4.332137	0.555	1.00732
14	0.128742	4.598694	0.526	1.00862
16	0.130502	4.424857	0.503	1.00972
18	0.131941	4.290471	0.486	1.01068
20	0.133460	4.058597	0.454	1.01256
25	0.136428	3.910852	0.433	1.01393
30	0.137759	3.808524	0.418	1.01498
35	0.138772	3.733478	0.407	1.01581
40	0.139569	3.676094	0.393	1.01647
45	0.140212	3.630796	0.391	1.01702
50	0.140742	3.594131	0.386	1.01747
55	0.141187	3.563346	0.381	1.01796
60				

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
6	0.050509	1371.195345	4.772	1.05270
1	0.079996	55.668747	2.448	1.01889
2	0.099034	20.379935	1.703	1.00671
3	0.112190	12.512787	1.344	1.00205
4	0.121789	9.376703	1.136	1.00038
5	0.129094	7.746307	1.000	1.00000
6	0.134837	6.761349	0.905	1.00023
7	0.139470	6.106526	0.834	1.00073
8	0.143237	5.641478	0.780	1.00136
9	0.146485	5.294936	0.736	1.00203
10	0.151545	4.814099	0.672	1.00337
12	0.153366	4.497011	0.627	1.00459
14	0.158355	4.272527	0.593	1.00567
16	0.160756	4.105385	0.567	1.00663
18	0.162728	3.976162	0.547	1.00747
20	0.166395	3.753159	0.509	1.00916
25	0.168929	3.611035	0.485	1.01042
30	0.170784	3.512382	0.468	1.01141
35	0.172201	3.440366	0.454	1.01218
40	0.173319	3.385138	0.444	1.01282
45	0.174223	3.341537	0.436	1.01334
50	0.174970	3.306242	0.430	1.01378
55	0.175596	3.277037	0.424	1.01416
60				

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
7	1	13	5	1
1	0.056589	46.181111	5.224	1.05690
2	0.090224	54.216270	2.692	1.02243
3	0.112232	19.728690	1.877	1.00917
4	0.127733	12.057471	1.485	1.00359
5	0.139137	9.003180	1.255	1.00117
6	0.147899	7.416373	1.106	1.00023
7	0.154844	6.458110	1.000	1.00000
8	0.160485	5.821162	0.922	1.00015
9	0.165160	5.368853	0.861	1.00049
10	0.169097	5.031814	0.813	1.00092
12	0.175364	4.564145	0.742	1.00130
14	0.180132	4.255706	0.691	1.00187
16	0.183882	4.037312	0.653	1.00277
18	0.186908	3.874677	0.624	1.00453
20	0.189402	3.748919	0.601	1.00531
25	0.194066	3.531340	0.559	1.00692
30	0.197307	3.393446	0.531	1.00799
35	0.199690	3.297550	0.511	1.00890
40	0.201517	3.227194	0.496	1.00963
45	0.202961	3.173378	0.485	1.01023
50	0.204132	3.130335	0.475	1.01073
55	0.205100	3.096482	0.468	1.01116
60	0.205914	3.068061	0.462	1.01152

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
8	1	13	5	1
1	0.061541	28.296566	5.609	1.06016
2	0.098634	33.156081	2.902	1.02534
3	0.123263	19.248686	2.029	1.01135
4	0.140705	11.719925	1.608	1.00509
5	0.153698	8.725128	1.361	1.00213
6	0.163759	7.169997	1.199	1.00073
7	0.171787	6.231101	1.085	1.00015
8	0.178345	5.607096	1.000	1.00000
9	0.183807	5.163936	0.934	1.00010
10	0.188427	4.833793	0.882	1.00034
12	0.195821	4.375575	0.804	1.00101
14	0.201430	4.073311	0.748	1.00176
16	0.205952	3.859243	0.707	1.00249
18	0.209576	3.699794	0.675	1.00318
20	0.212574	3.576474	0.649	1.00382
25	0.218204	3.362539	0.603	1.00516
30	0.222136	3.227730	0.572	1.00622
35	0.225039	3.133595	0.550	1.00707
40	0.227270	3.064512	0.533	1.00776
45	0.229039	3.011657	0.520	1.00833
50	0.230475	2.969915	0.510	1.00880
55	0.231664	2.936115	0.502	1.00921
60	0.232666	2.908138	0.495	1.00956

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.065635	1314.935398	5.942	1.06275
1	0.105644	52.349942	3.086	1.02777
2	0.132476	18.880728	2.163	1.01327
3	0.151648	11.459886	1.717	1.00650
4	0.166041	8.510168	1.455	1.00311
5	0.177259	6.979012	1.283	1.00136
6	0.186260	6.054746	1.161	1.00049
7	0.193649	5.440493	1.070	1.00010
8	0.199828	5.004298	1.000	1.00000
10	0.205075	4.679234	0.944	1.00007
12	0.213511	4.228068	0.860	1.00004
14	0.220002	3.930383	0.800	1.00003
16	0.225154	3.719504	0.755	1.000163
18	0.229345	3.562392	0.720	1.000220
20	0.232821	3.440850	0.692	1.000275
25	0.239376	3.230910	0.642	1.000394
30	0.243977	3.096950	0.609	1.000490
35	0.247385	3.004062	0.585	1.000569
40	0.250011	2.935873	0.567	1.000633
45	0.252097	2.883689	0.552	1.000637
50	0.253794	2.842467	0.541	1.000732
55	0.255202	2.809083	0.532	1.000771
60	0.256389	2.781495	0.524	1.000805

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.069070	1304.606572	6.231	1.06487
1	0.111561	51.717254	3.247	1.02981
2	0.140297	18.589940	2.282	1.01494
3	0.160982	11.253512	1.814	1.00779
4	0.176610	8.339053	1.539	1.00406
5	0.188860	6.826626	1.358	1.00203
6	0.198735	5.915764	1.230	1.00092
7	0.206877	5.307094	1.134	1.00034
8	0.213710	4.876259	1.059	1.00007
10	0.219531	4.555160	1.000	1.00000
12	0.228929	4.109419	0.911	1.00018
14	0.236193	3.815232	0.847	1.00057
16	0.241981	3.606773	0.799	1.00103
18	0.246705	3.451422	0.762	1.00151
20	0.250633	3.331211	0.732	1.00197
25	0.258070	3.123491	0.679	1.00302
30	0.263312	2.990883	0.642	1.00390
35	0.267207	2.838895	0.616	1.00462
40	0.270216	2.831344	0.597	1.00523
45	0.272611	2.779634	0.582	1.00573
50	0.274563	2.738777	0.569	1.00616
55	0.276183	2.705682	0.559	1.00654
60	0.277551	2.678323	0.551	1.00696

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.074495	89.736597	6.708	1.06810
1	0.120980	50.789583	3.517	1.03306
2	0.152825	18.160045	2.482	1.01770
3	0.176018	10.946859	1.980	1.01002
4	0.193723	8.083861	1.683	1.00591
5	0.207723	6.598712	1.487	1.00337
6	0.219099	5.702409	1.348	1.00190
7	0.228541	5.106706	1.244	1.00101
8	0.236515	4.683591	1.163	1.00048
9	0.243343	4.368172	1.098	1.00018
10	0.254443	3.930146	1.000	1.00000
12	0.263092	3.640380	0.930	1.00011
14	0.270029	3.435787	0.877	1.00035
16	0.275722	3.282855	0.835	1.00066
18	0.280479	3.164454	0.802	1.00098
20	0.2839543	2.959696	0.742	1.00179
25	0.295981	2.828841	0.701	1.00250
30	0.300792	2.737992	0.672	1.00312
35	0.304526	2.671229	0.650	1.00364
40	0.307508	2.620093	0.633	1.00409
45	0.309545	2.579669	0.619	1.00448
50	0.311975	2.546910	0.607	1.00432
55	0.313691	2.519823	0.598	1.00511
60				

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.073578	1279.589296	7.084	1.07045
1	0.128124	50.143375	3.733	1.03551
2	0.152394	17.857838	2.645	1.01987
3	0.187574	10.730071	2.115	1.01186
4	0.206946	7.902712	1.802	1.00732
5	0.222370	6.436400	1.595	1.00459
6	0.234979	5.551483	1.447	1.00237
7	0.245501	4.963280	1.336	1.00176
8	0.254428	4.545410	1.250	1.00103
9	0.262107	4.233825	1.180	1.00057
10	0.274659	3.800947	1.076	1.00011
12	0.284502	3.514909	1.000	1.00000
14	0.292441	3.311981	0.943	1.00007
16	0.298985	3.160578	0.898	1.00023
18	0.304477	3.043296	0.862	1.00044
20	0.314998	2.840308	0.796	1.00104
25	0.322520	2.710445	0.752	1.00161
30	0.328170	2.620204	0.719	1.00213
35	0.332572	2.553840	0.695	1.00259
40	0.336099	2.502977	0.676	1.00298
45	0.338990	2.462748	0.661	1.00333
50	0.341402	2.430131	0.648	1.00364
55	0.343446	2.403152	0.638	1.00391
60				

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
16 1	0.081757	1272.245990	7.389	1.07222
2	0.133720	49.668074	3.909	1.03742
3	0.169929	17.633971	2.779	1.02162
4	0.196718	10.568772	2.229	1.01337
5	0.217453	7.767494	1.902	1.00862
6	0.234054	6.314928	1.685	1.00567
7	0.247690	5.438285	1.531	1.00377
8	0.259118	4.855504	1.415	1.00249
9	0.268853	4.441401	1.324	1.00163
10	0.277256	4.132550	1.251	1.00103
12	0.291054	3.703299	1.141	1.00035
14	0.301934	3.419434	1.061	1.00007
16	0.310749	3.218033	1.000	1.00000
18	0.318044	3.067640	0.952	1.00005
20	0.324187	2.951078	0.914	1.00016
25	0.336014	2.749174	0.843	1.00058
30	0.344518	2.619868	0.796	1.00103
35	0.350934	2.529934	0.761	1.00146
40	0.355951	2.463746	0.735	1.00186
45	0.359982	2.412986	0.714	1.00221
50	0.363294	2.372817	0.697	1.00252
55	0.366063	2.340234	0.684	1.00280
60	0.368414	2.313271	0.672	1.00304

CONFIDENCE LEVEL=.975  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
18 1	0.084300	1266.696523	7.639	1.07362
2	0.138217	49.304114	4.056	1.03895
3	0.176011	17.461568	2.892	1.02304
4	0.204125	10.444113	2.323	1.01464
5	0.225996	7.662713	1.986	1.00972
6	0.243583	6.220605	1.763	1.00663
7	0.258086	5.350227	1.603	1.00458
8	0.270285	4.771531	1.482	1.00318
9	0.280710	4.360250	1.388	1.00220
10	0.289736	4.053432	1.312	1.00151
12	0.304613	3.626846	1.197	1.00066
14	0.316398	3.344647	1.114	1.00023
16	0.325984	3.144216	1.050	1.00005
18	0.333944	2.994512	1.000	1.00000
20	0.340667	2.878425	0.959	1.00003
25	0.353667	2.677188	0.885	1.00029
30	0.363061	2.548176	0.835	1.00064
35	0.370178	2.458368	0.798	1.00100
40	0.375760	2.392223	0.770	1.00134
45	0.380258	2.341467	0.748	1.00164
50	0.383961	2.301277	0.730	1.00192
55	0.387063	2.268562	0.715	1.00217
60	0.389700	2.241661	0.703	1.00240

CONFIDENCE LEVEL=.975  
SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
20				
1	0.086379	1262.360486	7.849	1.07474
2	0.141908	49.016632	4.180	1.04620
3	0.181020	17.324756	2.987	1.02423
4	0.210247	10.344903	2.405	1.01572
5	0.233075	7.579152	2.059	1.01068
6	0.251499	6.145242	1.830	1.00747
7	0.266744	5.279765	1.665	1.00531
8	0.279605	4.704249	1.541	1.00382
9	0.290626	4.295151	1.444	1.00275
10	0.300191	3.989893	1.366	1.00197
12	0.316010	3.565330	1.247	1.00098
14	0.328591	3.234524	1.160	1.00044
16	0.338859	3.034637	1.094	1.00016
18	0.347412	2.935414	1.042	1.00003
20	0.354655	2.819644	1.000	1.00000
25	0.368711	2.618808	0.922	1.00013
30	0.378916	2.489926	0.869	1.00039
35	0.386674	2.400133	0.831	1.00067
40	0.392777	2.333953	0.801	1.00096
45	0.397707	2.283135	0.778	1.00123
50	0.401774	2.242876	0.759	1.00147
55	0.405186	2.210189	0.743	1.00170
60	0.408092	2.183118	0.730	1.00191

CONFIDENCE LEVEL = .975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
25				
1	0.090224	1254.791697	8.250	1.07677
2	0.148768	48.507619	4.420	1.04252
3	0.190370	17.081060	3.174	1.02647
4	0.221713	10.167521	2.565	1.01779
5	0.246391	7.429319	2.203	1.01256
6	0.266442	6.009306	1.963	1.00916
7	0.283139	5.152381	1.790	1.00682
8	0.297306	4.582873	1.660	1.00516
9	0.309510	4.177322	1.557	1.00394
10	0.320155	3.874916	1.474	1.00302
12	0.337873	3.453716	1.348	1.00179
14	0.352075	3.174621	1.256	1.00104
16	0.363746	2.976065	1.186	1.00058
18	0.373526	2.827521	1.130	1.00029
20	0.381853	2.712153	1.084	1.00013
25	0.398140	2.511678	1.000	1.00000
30	0.410078	2.382735	0.942	1.00007
35	0.419224	2.292723	0.899	1.00022
40	0.426464	2.226268	0.867	1.00040
45	0.432343	2.175164	0.841	1.00058
50	0.437214	2.134026	0.820	1.00076
55	0.441318	2.101675	0.802	1.00093
60	0.444823	2.074357	0.788	1.00110

CONFIDENCE LEVEL = .975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
30 1	0.092861	1249.917005	8.535	1.07814
2	0.153498	48.174467	4.593	1.04411
3	0.196848	16.920485	3.310	1.02804
4	0.229703	10.050151	2.683	1.01927
5	0.255699	7.329864	2.310	1.01393
6	0.276929	5.919669	2.062	1.01042
7	0.294686	5.068242	1.884	1.00799
8	0.309815	4.501740	1.749	1.00622
9	0.322898	4.098745	1.643	1.00490
10	0.334349	3.797779	1.557	1.00390
12	0.353502	3.378598	1.426	1.00250
14	0.368943	3.100582	1.331	1.00161
16	0.381699	2.902606	1.257	1.00103
18	0.392433	2.754353	1.198	1.00064
20	0.401618	2.639109	1.150	1.00039
25	0.419686	2.438558	1.062	1.00007
30	0.433030	2.309308	1.000	1.00000
35	0.443317	2.218923	0.955	1.00004
40	0.451502	2.152090	0.920	1.00014
45	0.458178	2.100526	0.892	1.00025
50	0.463730	2.059753	0.869	1.00038
55	0.468422	2.026494	0.850	1.00051
60	0.472442	1.998395	0.834	1.00063

CONFIDENCE LEVEL = .975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
35 1	0.094781	1246.520143	8.747	1.07912
2	0.156955	47.939598	4.723	1.04526
3	0.201600	16.806741	3.413	1.02920
4	0.235579	9.966764	2.773	1.02038
5	0.262569	7.259043	2.392	1.01498
6	0.284691	5.855362	2.139	1.01141
7	0.303255	5.007755	1.957	1.00890
8	0.319122	4.443670	1.819	1.00707
9	0.332883	4.042282	1.711	1.00569
10	0.344959	3.742418	1.623	1.00462
12	0.365231	3.324556	1.489	1.00312
14	0.381650	3.047200	1.390	1.00213
16	0.395267	2.849537	1.314	1.00146
18	0.406774	2.701402	1.254	1.00100
20	0.416644	2.586157	1.204	1.00067
25	0.436163	2.385358	1.112	1.00022
30	0.450669	2.255722	1.048	1.00004
35	0.461909	2.164927	1.000	1.00000
40	0.470892	2.097698	0.963	1.00003
45	0.478245	2.045865	0.934	1.00009
50	0.484380	2.004654	0.910	1.00017
55	0.489580	1.971086	0.890	1.00026
60	0.494045	1.943206	0.873	1.00036

CONFIDENCE LEVEL = .975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
40	1 0.096242	1244.019405	8.912	1.07985
	2 0.159591	47.765169	4.824	1.04614
	3 0.205233	16.721965	3.454	1.03009
	4 0.240082	9.904474	2.844	1.02125
	5 0.267847	7.206051	2.458	1.01581
	6 0.290667	5.807173	2.200	1.01213
	7 0.309867	4.962371	2.015	1.00933
	8 0.326316	4.400048	1.875	1.00776
	9 0.340614	3.999820	1.765	1.00633
	10 0.353189	3.700742	1.676	1.00523
	12 0.374360	3.283795	1.539	1.00364
	14 0.391567	3.006863	1.439	1.00259
	16 0.405386	2.809377	1.361	1.00136
	18 0.418021	2.661271	1.299	1.00134
	20 0.428458	2.545972	1.248	1.00096
	25 0.449182	2.344861	1.154	1.00040
	30 0.464664	2.214823	1.083	1.00014
	35 0.476713	2.123628	1.038	1.00003
	40 0.486377	2.056016	1.000	1.00000
	45 0.494314	2.003329	0.969	1.00002
	50 0.500954	1.963295	0.944	1.00006
	55 0.506595	1.928434	0.923	1.00012
	60 0.511451	1.900286	0.905	1.00019

CONFIDENCE LEVEL=.975  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
45	1 0.097390	1242.102431	9.043	1.08043
	2 0.161663	47.630536	4.903	1.04683
	3 0.208101	16.656348	3.559	1.03080
	4 0.243644	9.856178	2.901	1.02194
	5 0.272028	7.164909	2.511	1.01647
	6 0.295409	5.769718	2.250	1.01282
	7 0.315122	4.927060	2.063	1.01023
	8 0.332043	4.366077	1.922	1.00833
	9 0.346778	3.966723	1.810	1.00687
	10 0.359760	3.668230	1.720	1.00573
	12 0.381666	3.251943	1.581	1.00409
	14 0.399524	2.975310	1.479	1.00298
	16 0.414424	2.777913	1.400	1.00221
	18 0.427083	2.629792	1.333	1.00164
	20 0.437994	2.514414	1.286	1.00123
	25 0.459736	2.312973	1.189	1.00058
	30 0.476049	2.182559	1.122	1.00025
	35 0.488791	2.090978	1.071	1.00009
	40 0.499045	2.023007	1.032	1.00002
	45 0.507488	1.970490	1.000	1.00000
	50 0.514570	1.928655	0.974	1.00001
	55 0.520600	1.894520	0.952	1.00005
	60 0.525799	1.866123	0.934	1.00009

CONFIDENCE LEVEL=.975  
SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
50	1 0.098317	12 40.586575	9.150	1.08089
	2 0.163347	47.523485	4.972	1.04738
	3 0.210422	16.604059	3.613	1.03137
	4 0.246530	9.817639	2.949	1.02250
	5 0.275422	7.132042	2.555	1.01702
	6 0.299264	5.739770	2.292	1.01334
	7 0.319399	4.898803	2.103	1.01073
	8 0.336710	4.338871	1.960	1.00880
	9 0.351807	3.940198	1.848	1.00732
	10 0.365126	3.642157	1.756	1.00616
	12 0.387647	3.226375	1.616	1.00448
	14 0.406051	2.949941	1.513	1.00333
	16 0.421440	2.752591	1.434	1.00252
	18 0.434541	2.604430	1.370	1.00192
	20 0.445855	2.488964	1.318	1.00147
	25 0.468466	2.287209	1.220	1.00076
	30 0.485495	2.156429	1.151	1.00038
	35 0.498839	2.064494	1.099	1.00017
	40 0.509607	1.996192	1.059	1.00006
	45 0.518496	1.943371	1.027	1.00001
	50 0.525967	1.901253	1.000	1.00000
	55 0.532341	1.866870	0.978	1.00001
	60 0.537347	1.838243	0.953	1.00003

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
55	1 0.099080	12 39.358072	9.239	1.08126
	2 0.164731	47.436334	5.027	1.04784
	3 0.212339	16.561414	3.658	1.03184
	4 0.248917	9.786171	2.989	1.02297
	5 0.278231	7.105183	2.592	1.01747
	6 0.302458	5.715273	2.327	1.01378
	7 0.322947	4.875678	2.137	1.01116
	8 0.340586	4.316592	1.993	1.00921
	9 0.355988	3.918464	1.880	1.00771
	10 0.369593	3.620781	1.783	1.00654
	12 0.392633	3.205337	1.647	1.00482
	14 0.411500	2.929098	1.543	1.00364
	16 0.427308	2.731767	1.463	1.00280
	18 0.440788	2.583557	1.398	1.00217
	20 0.452450	2.468000	1.345	1.00170
	25 0.475811	2.265941	1.246	1.00093
	30 0.493463	2.134827	1.176	1.00051
	35 0.507334	2.042567	1.124	1.00026
	40 0.518556	1.973962	1.083	1.00012
	45 0.527838	1.920861	1.050	1.00005
	50 0.535656	1.878494	1.023	1.00001
	55 0.542337	1.843373	1.000	1.00000
	60 0.548117	1.815032	0.980	1.00001

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
60				
1	0.099719	1238.342516	9.314	1.08158
2	0.165892	47.364009	5.075	1.04823
3	0.213948	16.525970	3.696	1.03224
4	0.250524	9.759993	3.023	1.02337
5	0.280596	7.082823	2.623	1.01786
6	0.305149	5.694875	2.357	1.01416
7	0.325939	4.856403	2.166	1.01152
8	0.343857	4.298012	2.021	1.00956
9	0.359519	3.900330	1.907	1.00805
10	0.373367	3.602937	1.815	1.00686
12	0.396853	3.187851	1.673	1.00511
14	0.416120	2.911668	1.568	1.00391
16	0.432288	2.714340	1.489	1.00304
18	0.446098	2.566074	1.423	1.00240
20	0.458060	2.450429	1.370	1.00191
25	0.482077	2.243086	1.270	1.00110
30	0.500276	2.116664	1.199	1.00063
35	0.514613	2.024106	1.146	1.00036
40	0.526236	1.955222	1.105	1.00019
45	0.535870	1.901866	1.071	1.00009
50	0.543999	1.859264	1.043	1.00003
55	0.550954	1.824429	1.020	1.00001
60	0.556581	1.795393	1.000	1.00000

CONFIDENCE LEVEL=.975  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.000062	10.722709	1.000	1.00000
2	0.000089	297.509443	0.502	1.01114
3	0.000103	88.373759	0.342	1.02439
4	0.000111	50.084764	0.266	1.03416
5	0.000116	36.180658	0.223	1.04116
6	0.000119	29.339240	0.196	1.04630
7	0.000122	25.353713	0.177	1.05018
8	0.000124	22.773743	0.163	1.05320
9	0.000125	20.975658	0.153	1.05561
10	0.000126	19.657099	0.145	1.05757
12	0.000128	17.858370	0.133	1.06057
14	0.000129	16.691861	0.125	1.06274
16	0.000129	15.876447	0.119	1.06439
18	0.000130	15.275362	0.115	1.06568
20	0.000130	14.814979	0.111	1.06672
25	0.000131	14.026143	0.105	1.06860
30	0.000132	13.529613	0.101	1.06986
35	0.000132	13.187229	0.098	1.07076
40	0.000132	12.938175	0.096	1.07144
45	0.000133	12.747504	0.094	1.07197
50	0.000133	12.598493	0.093	1.07259
55	0.000133	12.477342	0.092	1.07273
60	0.000133	12.377836	0.091	1.07302

CONFIDENCE LEVEL=.99

SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.003361	11286.961134	1.990	1.01114
1	0.005025	199.000000	1.000	1.00000
3	0.005930	57.537220	0.681	1.00331
4	0.006574	32.009358	0.529	1.00858
5	0.006970	22.819110	0.442	1.01344
6	0.007250	18.322340	0.386	1.01752
7	0.007456	15.713739	0.348	1.02088
8	0.007613	14.029301	0.320	1.02366
9	0.007737	12.859094	0.299	1.02598
10	0.007837	12.001996	0.282	1.02794
12	0.007988	10.835111	0.258	1.03105
14	0.008096	10.080630	0.241	1.03340
16	0.008177	9.554129	0.229	1.03522
18	0.008240	9.166390	0.219	1.03669
20	0.008290	8.869203	0.212	1.03798
25	0.008330	8.361834	0.199	1.04009
30	0.008440	8.042240	0.190	1.04160
35	0.008483	7.822622	0.184	1.04270
40	0.008515	7.662483	0.180	1.04354
45	0.008539	7.540555	0.176	1.04419
50	0.008559	7.444650	0.174	1.04472
55	0.008575	7.367232	0.171	1.04516
60	0.008589	7.303436	0.170	1.04552

CONFIDENCE LEVEL=.99

SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
3 1	0.0111316	9736.337915	2.921	1.02439
2	0.017380	167.231667	1.469	1.00331
3	0.021067	47.467228	1.000	1.00000
4	0.023477	26.061694	0.776	1.00135
5	0.025149	18.399035	0.647	1.00383
6	0.026367	14.664150	0.564	1.00641
7	0.027289	12.503359	0.507	1.00880
8	0.028010	11.110384	0.465	1.01092
9	0.028587	10.144997	0.433	1.01278
10	0.029060	9.438431	0.408	1.01441
12	0.029785	8.477785	0.372	1.01710
14	0.030316	7.857545	0.346	1.01922
16	0.030721	7.425166	0.327	1.02092
18	0.031039	7.107000	0.313	1.02231
20	0.031296	6.863292	0.302	1.02346
25	0.031763	6.447543	0.282	1.02564
30	0.032078	6.185885	0.269	1.02716
35	0.032304	6.006182	0.259	1.02829
40	0.032474	5.875200	0.252	1.02915
45	0.032607	5.775513	0.247	1.02983
50	0.032714	5.697111	0.243	1.03039
55	0.032801	5.633842	0.240	1.03085
60	0.032874	5.581715	0.237	1.03123

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
4 1	0.0119966	9021.696223	3.753	1.03416
2	0.031240	152.112687	1.892	1.00858
3	0.038370	42.594480	1.289	1.00135
4	0.043138	23.154502	1.000	1.00000
5	0.046623	16.224148	0.833	1.00066
6	0.049132	12.855414	0.726	1.00199
7	0.051155	10.910196	0.651	1.00349
8	0.052720	9.658411	0.596	1.00497
9	0.053991	8.791052	0.555	1.00635
10	0.055042	8.157097	0.522	1.00762
12	0.056678	7.295963	0.474	1.00982
14	0.057891	6.740504	0.440	1.01163
16	0.058827	6.353545	0.415	1.01312
18	0.059569	6.068946	0.396	1.01437
20	0.060172	5.851035	0.381	1.01542
25	0.061280	5.479474	0.354	1.01746
30	0.062034	5.245737	0.337	1.01891
35	0.062581	5.085267	0.324	1.02001
40	0.062995	4.968331	0.315	1.02085
45	0.063319	4.879349	0.308	1.02153
50	0.063580	4.809378	0.302	1.02208
55	0.063795	4.752919	0.298	1.02254
60	0.063974	4.706404	0.294	1.02293

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
5	1 0.027639	8625.705206	4.478	1.04116
	2 0.043823	143.466003	2.264	1.01344
	3 0.054351	39.762613	1.546	1.00383
	4 0.061637	21.448560	1.200	1.00066
	5 0.066936	14.939605	1.000	1.00000
	6 0.070949	11.782075	0.871	1.00037
	7 0.074087	9.961367	0.780	1.00115
	8 0.076605	8.790896	0.714	1.00209
	9 0.078668	7.980497	0.663	1.00306
	10 0.080390	7.388519	0.623	1.00401
	12 0.033096	6.584909	0.565	1.00574
	14 0.085126	6.066873	0.523	1.00724
	16 0.086704	5.706140	0.493	1.00852
	18 0.087966	5.440910	0.469	1.00961
	20 0.088998	5.237874	0.451	1.01056
	25 0.090906	4.891767	0.418	1.01241
	30 0.092216	4.674100	0.396	1.01377
	35 0.093171	4.524685	0.381	1.01481
	40 0.093897	4.415317	0.369	1.01562
	45 0.094469	4.332980	0.361	1.01628
	50 0.094930	4.267845	0.354	1.01681
	55 0.095310	4.215290	0.348	1.01726
	60 0.095628	4.171994	0.343	1.01764

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
6	1 0.034084	8379.560314	5.105	1.04630
	2 0.054579	137.937053	2.590	1.01752
	3 0.068194	37.926107	1.772	1.00641
	4 0.077788	20.332810	1.378	1.00199
	5 0.084875	14.094620	1.149	1.00037
	6 0.090309	11.073039	1.000	1.00000
	7 0.094605	9.332538	0.866	1.00022
	8 0.098033	8.214457	0.820	1.00072
	9 0.100955	7.440750	0.761	1.00135
	10 0.103368	6.875805	0.715	1.00201
	12 0.107192	6.109209	0.646	1.00334
	14 0.110036	5.615227	0.598	1.00455
	16 0.112353	5.271327	0.562	1.00563
	18 0.114175	5.018513	0.535	1.00658
	20 0.115673	4.8325004	0.513	1.00741
	25 0.118460	4.495171	0.474	1.00909
	30 0.120388	4.287753	0.449	1.01035
	35 0.121800	4.145379	0.431	1.01132
	40 0.122879	4.041640	0.417	1.01209
	45 0.123730	3.962706	0.407	1.01272
	50 0.124419	3.900640	0.398	1.01324
	55 0.124987	3.850559	0.392	1.01367
	60 0.125465	3.809301	0.386	1.01404

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.0039441	13.975210	5.647	1.05018
1	0.0063639	134.124919	2.876	1.02088
3	0.0079978	136.644478	1.973	1.00880
5	0.0091657	19.548491	1.536	1.00349
7	0.100388	13.497681	1.281	1.00115
9	0.107152	10.570293	1.116	1.00022
11	0.112544	8.885389	1.000	1.00000
13	0.116943	7.803613	0.914	1.00014
15	0.120599	7.055313	0.849	1.00048
17	0.123687	6.509082	0.797	1.00092
19	0.128614	5.768070	0.719	1.00189
21	0.132372	5.290682	0.665	1.00285
23	0.135333	4.958375	0.625	1.00375
25	0.137726	4.714097	0.594	1.00456
27	0.139701	4.527125	0.569	1.00529
29	0.143397	4.208431	0.525	1.00679
31	0.145963	4.008003	0.496	1.00795
33	0.147861	3.870424	0.475	1.00886
35	0.149312	3.770169	0.459	1.00958
37	0.150460	3.693881	0.447	1.01018
39	0.151391	3.633890	0.438	1.01068
41	0.152161	3.585482	0.430	1.01110
43	0.152808	3.545601	0.424	1.01146

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.0043911	8095.984097	6.119	1.05320
1	0.0071279	131.349906	3.127	1.02366
3	0.0090002	135.701884	2.150	1.01092
5	0.103537	18.968072	1.677	1.00497
7	0.113754	113.054040	1.400	1.00209
9	0.121737	10.195475	1.220	1.00072
11	0.128146	8.551176	1.094	1.00014
13	0.133406	7.495906	1.000	1.00000
15	0.137802	6.766151	0.928	1.00010
17	0.141531	6.233548	0.871	1.00034
19	0.144751	5.811150	0.786	1.00100
21	0.152114	5.045806	0.726	1.00175
23	0.155734	4.721392	0.681	1.00249
25	0.158709	4.483780	0.647	1.00317
27	0.161156	4.301520	0.619	1.00381
29	0.165760	3.990829	0.570	1.00515
31	0.168981	3.795408	0.538	1.00620
33	0.171361	3.661240	0.515	1.00705
35	0.173192	3.563460	0.497	1.00773
37	0.174644	3.489047	0.484	1.00830
39	0.175824	3.430525	0.473	1.00877
41	0.176801	3.383298	0.465	1.00917
43	0.177624	3.344386	0.457	1.00952

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
9	1 0.047673	8008.153012	6.531	1.05561
	2 0.077766	129.245641	3.349	1.02598
	3 0.098571	34.980814	2.308	1.01278
	4 0.113752	18.521698	1.803	1.00635
	5 0.125305	12.711603	1.507	1.00306
	6 0.134395	9.905355	1.314	1.00135
	7 0.141737	8.291921	1.178	1.00048
	8 0.147795	7.256781	1.078	1.00010
	9 0.152880	6.541090	1.000	1.00000
	10 0.157211	6.018817	0.938	1.00007
	12 0.164199	5.310495	0.847	1.00048
	14 0.169594	4.854232	0.782	1.00103
	16 0.173888	4.536628	0.733	1.00162
	18 0.177387	4.303133	0.695	1.00220
	20 0.180294	4.124401	0.666	1.00274
	25 0.185787	3.819670	0.612	1.00393
	30 0.189650	3.627954	0.576	1.00490
	35 0.192515	3.496302	0.551	1.00568
	40 0.194726	3.400340	0.532	1.00632
	45 0.196482	3.327299	0.517	1.00686
	50 0.197913	3.269849	0.505	1.00731
	55 0.199099	3.223482	0.496	1.00769
	60 0.200100	3.185274	0.488	1.00803

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
10	1 0.050872	7940.501662	6.893	1.05757
	2 0.083319	127.598442	3.546	1.02794
	3 0.105950	44.412075	2.449	1.01441
	4 0.122593	18.168013	1.916	1.00762
	5 0.133632	12.439410	1.604	1.00401
	6 0.145438	9.674191	1.399	1.00201
	7 0.153632	8.084950	1.255	1.00092
	8 0.160422	7.065574	1.148	1.00034
	9 0.166146	6.360883	1.066	1.00007
	10 0.171037	5.846678	1.000	1.00000
	12 0.178964	5.149326	0.902	1.00018
	14 0.185116	4.700113	0.832	1.00057
	16 0.190032	4.387398	0.780	1.00103
	18 0.194052	4.157475	0.740	1.00151
	20 0.197401	3.981448	0.708	1.00197
	25 0.203756	3.681277	0.650	1.00302
	30 0.208246	3.492379	0.611	1.00390
	35 0.211588	3.362630	0.584	1.00462
	40 0.214172	3.268035	0.563	1.00522
	45 0.216231	3.196023	0.547	1.00573
	50 0.217910	3.139372	0.534	1.00616
	55 0.219305	3.093645	0.524	1.00652
	60 0.220483	3.055960	0.515	1.00684

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.055998	7843.589237	7.499	1.06057
1	0.092293	125.191376	3.880	1.03105
2	0.117955	33.573399	2.691	1.01710
3	0.137062	17.643577	2.112	1.00982
4	0.151862	12.034239	1.771	1.00574
5	0.163687	9.329069	1.548	1.00334
6	0.173368	7.775204	1.390	1.00189
7	0.181450	6.778844	1.272	1.00100
8	0.188306	6.090183	1.181	1.00048
9	0.194200	5.587710	1.109	1.00018
10	0.203322	4.906249	1.000	1.00000
11	0.211352	4.467205	0.923	1.00011
12	0.221741	4.161486	0.864	1.00035
13	0.222399	3.936646	0.819	1.00066
14	0.226575	3.764461	0.783	1.00098
15	0.234553	3.470701	0.718	1.00179
16	0.240236	3.285715	0.674	1.00250
17	0.244492	3.158382	0.643	1.00312
18	0.247799	3.065349	0.613	1.00364
19	0.250444	2.995224	0.601	1.00409
20	0.252607	2.939345	0.586	1.00448
25	0.253410	2.894769	0.574	1.00481
30	0.255936	2.857776	0.564	1.00511

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.059909	7777.863690	7.984	1.06274
1	0.099200	123.521917	4.150	1.03340
2	0.127266	32.985610	2.889	1.01922
3	0.148357	17.273745	2.273	1.01165
4	0.164830	11.747263	1.911	1.00724
5	0.178087	9.083798	1.672	1.00455
6	0.189012	7.554468	1.504	1.00283
7	0.198184	6.574033	1.377	1.00173
8	0.206006	5.896432	1.280	1.00103
9	0.212761	5.402025	1.201	1.00057
10	0.223854	4.731435	1.084	1.00011
11	0.232597	4.299287	1.000	1.00000
12	0.239674	3.998277	0.937	1.00007
13	0.245526	3.776827	0.887	1.00023
14	0.250449	3.607180	0.848	1.00045
15	0.253990	3.317397	0.776	1.00104
16	0.266695	3.135106	0.729	1.00162
17	0.271804	3.009608	0.693	1.00213
18	0.275792	2.918019	0.667	1.00259
19	0.278992	2.848232	0.647	1.00299
20	0.281617	2.793291	0.630	1.00333
25	0.283809	2.748914	0.617	1.00364
30	0.285668	2.712321	0.606	1.00391

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.062985	7730.555227	8.380	1.06439
2	0.104667	122.298111	4.374	1.03522
3	0.134677	32.551287	3.055	1.02092
4	0.157392	16.959139	2.410	1.01312
5	0.175250	11.533441	2.029	1.00852
6	0.189706	8.900555	1.779	1.00563
7	0.201679	7.389187	1.601	1.00375
8	0.211780	6.420384	1.468	1.00249
9	0.220428	5.750836	1.364	1.00162
10	0.227926	5.262285	1.281	1.00103
12	0.240299	4.599540	1.157	1.00035
14	0.250108	4.172326	1.067	1.00007
16	0.258088	3.874654	1.000	1.00000
18	0.264714	3.655582	0.947	1.00005
20	0.270307	3.487693	0.905	1.00016
25	0.281114	3.200965	0.823	1.00058
30	0.288914	3.020131	0.775	1.00103
35	0.294814	2.895689	0.738	1.00147
40	0.299437	2.804819	0.710	1.00186
45	0.303157	2.735547	0.687	1.00221
50	0.306217	2.680987	0.669	1.00252
55	0.308779	2.636902	0.655	1.00280
60	0.310955	2.600533	0.643	1.00304

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.065463	7694.967340	8.710	1.06568
2	0.109094	121.363711	4.562	1.03669
3	0.140706	32.217508	3.193	1.02231
4	0.164773	16.787274	2.526	1.01437
5	0.183793	11.368008	2.131	1.00961
6	0.199262	8.758469	1.870	1.00653
7	0.212130	7.260791	1.685	1.00456
8	0.223026	6.300834	1.546	1.00317
9	0.232339	5.637394	1.438	1.00220
10	0.240531	5.153267	1.351	1.00151
12	0.254023	4.456419	1.221	1.00066
14	0.264773	4.072891	1.127	1.00023
16	0.273554	3.777669	1.056	1.00005
18	0.280873	3.560332	1.000	1.00000
20	0.287071	3.393718	0.955	1.00003
25	0.299100	3.108995	0.873	1.00030
30	0.307829	2.929290	0.818	1.00065
35	0.314461	2.805543	0.778	1.00100
40	0.319674	2.715127	0.747	1.00134
45	0.323832	2.646166	0.723	1.00165
50	0.327351	2.591828	0.704	1.00192
55	0.330260	2.547905	0.688	1.00217
60	0.332735	2.511663	0.675	1.00240

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
20		7667.272628	8.988	1.06672
1	0.067500	120.627481	4.722	1.03788
2	0.112750	31.953104	3.315	1.02346
3	0.145703	16.618902	2.625	1.01542
4	0.170910	11.236233	2.218	1.01056
5	0.190917	8.645081	1.949	1.00741
6	0.207254	7.158170	1.758	1.00529
7	0.220891	6.205155	1.614	1.00381
8	0.232476	5.546495	1.503	1.00274
9	0.242459	5.065820	1.413	1.00197
10	0.251165	4.413545	1.277	1.00098
12	0.265642	3.992832	1.179	1.00045
14	0.277225	3.699492	1.105	1.00016
16	0.286722	3.483457	1.047	1.00003
18	0.294663	3.317786	1.000	1.00000
20	0.301406	3.034517	0.914	1.00013
25	0.314546	2.855595	0.856	1.00039
30	0.324128	2.732303	0.813	1.00068
35	0.331435	2.642169	0.781	1.00096
40	0.337197	2.573337	0.756	1.00123
45	0.341860	2.519168	0.735	1.00148
50	0.345712	2.475323	0.718	1.00170
55	0.348949	2.439132	0.704	1.00191
60	0.351707			

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
25		7619.191439	9.523	1.06860
1	0.071293	119.328255	5.033	1.04009
2	0.119591	31.483250	3.550	1.02564
3	0.155098	16.318443	2.824	1.01746
4	0.182499	11.000364	2.393	1.01241
5	0.204425	8.441633	2.109	1.00909
6	0.222461	6.973663	1.906	1.00679
7	0.237618	6.032818	1.753	1.00515
8	0.250574	5.382503	1.634	1.00393
9	0.261803	4.907823	1.539	1.00302
10	0.271645	4.263421	1.394	1.00179
12	0.288126	3.847498	1.288	1.00104
14	0.301423	3.557273	1.208	1.00058
16	0.312406	3.343361	1.145	1.00030
18	0.321647	3.179186	1.094	1.00013
20	0.329542	2.898116	1.000	1.00000
25	0.345052	2.720261	0.936	1.00007
30	0.356477	2.597511	0.889	1.00022
35	0.365262	2.507646	0.853	1.00040
40	0.372235	2.438986	0.824	1.00058
45	0.377909	2.384803	0.801	1.00076
50	0.382618	2.340945	0.782	1.00094
55	0.386592	2.304713	0.766	1.00110
60	0.389990			

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
30	1 0.073913	7588.424462	9.907	1.06986
	2 0.124343	118.481158	5.259	1.04160
	3 0.161658	31.174496	3.724	1.02716
	4 0.190631	16.120073	2.970	1.01891
	5 0.213945	10.844105	2.524	1.01377
	6 0.233222	8.306481	2.229	1.01035
	7 0.249501	6.850804	2.018	1.00795
	8 0.263476	5.917824	1.860	1.00620
	9 0.275637	5.272870	1.736	1.00490
	10 0.286338	4.802015	1.636	1.00390
	12 0.304348	4.162573	1.484	1.00250
	14 0.318969	3.749601	1.374	1.00162
	16 0.331111	3.461240	1.290	1.00103
	18 0.341380	3.248353	1.223	1.00065
	20 0.350190	3.085203	1.169	1.00039
	25 0.367612	2.805230	1.069	1.00007
	30 0.380549	2.627781	1.000	1.00000
	35 0.390562	2.505132	0.949	1.00004
	40 0.398553	2.415224	0.911	1.00014
	45 0.405086	2.346452	0.880	1.00025
	50 0.410530	2.292125	0.855	1.00038
	55 0.415133	2.248110	0.834	1.00051
	60 0.419091	2.211719	0.817	1.00063

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
35	1 0.075830	7567.088454	10.193	1.07076
	2 0.127834	117.885653	5.430	1.04270
	3 0.166493	30.956225	3.856	1.02829
	4 0.196647	15.979364	3.093	1.02001
	5 0.221010	10.732995	2.626	1.01481
	6 0.241232	8.210137	2.323	1.01132
	7 0.258370	6.763118	2.106	1.00886
	8 0.273132	5.835625	1.943	1.00703
	9 0.286016	5.194392	1.816	1.00568
	10 0.297336	4.726175	1.713	1.00462
	12 0.316398	4.090118	1.556	1.00312
	14 0.332269	3.679117	1.442	1.00213
	16 0.345341	3.391966	1.355	1.00147
	18 0.356437	3.180045	1.286	1.00100
	20 0.365992	3.017183	1.230	1.00068
	25 0.384984	2.737765	1.123	1.00022
	30 0.399181	2.560414	1.053	1.00004
	35 0.410228	2.437672	1.000	1.00000
	40 0.419085	2.347589	0.959	1.00003
	45 0.426354	2.278610	0.926	1.00009
	50 0.432432	2.224067	0.900	1.00017
	55 0.437592	2.179839	0.878	1.00026
	60 0.442030	2.143241	0.859	1.00036

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
40				
1	0.077293	7551.441148	10.420	1.07144
2	0.130506	117.444348	5.565	1.04354
3	0.170207	30.793789	3.960	1.02915
4	0.201275	15.874386	3.173	1.02085
5	0.226459	10.649946	2.707	1.01562
6	0.247424	8.138102	2.398	1.01209
7	0.265240	6.697391	2.177	1.00958
8	0.280626	5.773938	2.011	1.00773
9	0.294088	5.135434	1.880	1.00632
10	0.305994	4.669142	1.775	1.00522
12	0.326174	4.035527	1.615	1.00364
14	0.342698	3.625921	1.459	1.00259
16	0.356529	3.339603	1.409	1.00186
18	0.368307	3.128136	1.338	1.00134
20	0.378477	2.965625	1.280	1.00096
25	0.398780	2.686478	1.173	1.00040
30	0.414040	2.509074	1.098	1.00014
35	0.425969	2.386151	1.043	1.00003
40	0.435571	2.295839	1.000	1.00000
45	0.443477	2.226617	0.966	1.00002
50	0.450107	2.171833	0.933	1.00006
55	0.455750	2.127374	0.915	1.00012
60	0.460615	2.090558	0.895	1.00019

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
45				
1	0.078445	7539.482135	10.600	1.07197
2	0.132616	117.104305	5.673	1.04419
3	0.173145	30.668214	4.045	1.02983
4	0.204945	15.793070	3.246	1.02153
5	0.230788	10.585524	2.773	1.01628
6	0.252353	8.082120	2.459	1.01272
7	0.270718	6.646293	2.235	1.01018
8	0.286611	5.725935	2.066	1.00830
9	0.300544	5.089514	1.934	1.00686
10	0.312889	4.624685	1.827	1.00573
12	0.333865	3.992910	1.665	1.00409
14	0.351095	3.584535	1.546	1.00299
16	0.365558	3.298616	1.455	1.00221
18	0.377905	3.087545	1.382	1.00165
20	0.388593	2.925175	1.323	1.00123
25	0.410006	2.646142	1.213	1.00058
30	0.426175	2.468611	1.136	1.00025
35	0.438864	2.345470	1.079	1.00009
40	0.449112	2.254910	1.035	1.00002
45	0.457575	2.185436	1.000	1.00000
50	0.464690	2.130408	0.971	1.00001
55	0.470760	2.085717	0.947	1.00005
60	0.476003	2.048634	0.926	1.00009

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
50 1	0.079377	7530.048530	10.747	1.07239
2	0.134325	116.834303	5.762	1.04472
3	0.175528	30.568243	4.115	1.03039
4	0.207927	15.728232	3.307	1.02208
5	0.234310	10.534096	2.828	1.01681
6	0.256368	8.037387	2.511	1.01324
7	0.275187	6.605428	2.284	1.01068
8	0.291501	5.687516	2.113	1.00877
9	0.305825	5.052737	1.975	1.00731
10	0.318535	4.589055	1.871	1.00616
12	0.340177	3.958712	1.706	1.00448
14	0.358001	3.550927	1.586	1.00333
16	0.372997	3.265653	1.494	1.00252
18	0.385828	3.054823	1.420	1.00192
20	0.396957	2.892582	1.360	1.00148
25	0.419322	2.613571	1.248	1.00076
30	0.436276	2.435876	1.170	1.00033
35	0.449627	2.312505	1.111	1.00017
40	0.460441	2.221595	1.066	1.00006
45	0.469394	2.151974	1.030	1.00001
50	0.476938	2.096708	1.000	1.00000
55	0.483388	2.051794	0.975	1.00001
60	0.488969	2.014552	0.954	1.00003

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
55 1	0.080145	7522.419235	10.870	1.07273
2	0.135736	116.614738	5.836	1.04516
3	0.177499	30.486773	4.173	1.03035
4	0.210397	15.675326	3.357	1.02254
5	0.237232	10.492092	2.874	1.01726
6	0.259703	8.000822	2.554	1.01367
7	0.278903	6.572003	2.325	1.01110
8	0.295570	5.656072	2.153	1.00917
9	0.310224	5.022619	2.018	1.00769
10	0.323243	4.559860	1.908	1.00652
12	0.345451	3.930661	1.742	1.00481
14	0.363780	3.523497	1.621	1.00364
16	0.379233	3.238564	1.527	1.00280
18	0.392479	3.027913	1.453	1.00217
20	0.403988	2.865751	1.392	1.00170
25	0.427178	2.586710	1.278	1.00094
30	0.444818	2.408835	1.199	1.00051
35	0.458750	2.285234	1.139	1.00026
40	0.470063	2.194134	1.093	1.00012
45	0.479451	2.124225	1.056	1.00005
50	0.487378	2.068733	1.026	1.00001
55	0.494168	2.023605	1.000	1.00000
60	0.500052	1.986165	0.978	1.00001

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
60 1	0.080790	7516.123368	10.973	1.07302
2	0.136922	116.432703	5.900	1.04552
3	0.179156	30.419107	4.223	1.03123
4	0.212476	15.631337	3.401	1.02293
5	0.239694	10.457141	2.914	1.01764
6	0.262515	7.970377	2.591	1.01404
7	0.282040	6.544155	2.361	1.01146
8	0.299009	5.629860	2.187	1.00952
9	0.313945	4.957499	2.051	1.00803
10	0.327229	4.535499	1.941	1.00684
12	0.349923	3.907234	1.773	1.00511
14	0.368688	3.500570	1.651	1.00391
16	0.384536	3.215905	1.556	1.00304
18	0.398143	3.005391	1.481	1.00240
20	0.409982	2.843275	1.420	1.00191
25	0.433894	2.564171	1.305	1.00110
30	0.452137	2.386114	1.224	1.00063
35	0.466583	2.262291	1.164	1.00036
40	0.478341	2.171010	1.117	1.00019
45	0.488118	2.100826	1.080	1.00009
50	0.496388	2.045121	1.048	1.00003
55	0.503483	1.999794	1.022	1.00001
60	0.509641	1.962166	1.000	1.00000

CONFIDENCE LEVEL=.99  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.000015	64844.890735	1.0000	1.000000
2	0.000022	597.457255	0.501	1.00986
3	0.000026	142.402118	0.339	1.02194
4	0.000028	72.774152	0.261	1.03087
5	0.000029	49.592371	0.217	1.03741
6	0.000030	38.749937	0.189	1.04235
7	0.000031	32.646466	0.170	1.04592
8	0.000031	28.798691	0.156	1.04878
9	0.000032	26.151589	0.145	1.05107
10	0.000032	24.243160	0.137	1.05293
12	0.000032	21.677691	0.125	1.05578
14	0.000033	20.041272	0.117	1.05784
16	0.000033	19.912047	0.110	1.05941
18	0.000033	18.082176	0.106	1.06063
20	0.000033	17.452703	0.102	1.06162
25	0.000033	16.384427	0.096	1.06240
30	0.000033	15.717920	0.092	1.06459
35	0.000034	15.260394	0.089	1.06544
40	0.000034	14.926264	0.087	1.06608
45	0.000034	14.676623	0.085	1.06658
50	0.000034	14.477432	0.084	1.06698
55	0.000034	14.319003	0.083	1.06730
60	0.000034	14.185238	0.082	1.06757

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
2	0.001674	45074.417924	1.995	1.00936
3	0.002506	398.599241	1.000	1.00000
3	0.002991	92.482972	0.676	1.00304
4	0.003297	46.348770	0.520	1.00798
5	0.003502	31.135636	0.431	1.01259
6	0.003648	24.071486	0.374	1.01650
7	0.003755	20.113659	0.335	1.01973
8	0.003838	17.620631	0.306	1.02241
9	0.003902	15.920605	0.284	1.02466
10	0.003954	14.693383	0.267	1.02635
12	0.004033	13.048680	0.243	1.02956
14	0.004089	12.002357	0.226	1.03183
16	0.004131	11.280657	0.213	1.03360
18	0.004164	10.753839	0.204	1.03504
20	0.004190	10.352827	0.196	1.03617
25	0.004236	9.673940	0.183	1.03830
30	0.004267	9.250167	0.174	1.03976
35	0.004289	8.960749	0.168	1.04082
40	0.004306	8.750649	0.164	1.04162
45	0.004318	8.591228	0.160	1.04225
50	0.004328	8.466168	0.158	1.04276
55	0.004337	8.365420	0.156	1.04318
60	0.004344	8.282565	0.154	1.04353

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
3	1 0.007022	3 8749.840441	2.950	1.02184
	2 0.010813	3 34.325526	1.480	1.00304
	3 0.013148	76.056127	1.000	1.00000
	4 0.014692	37.598407	0.769	1.00128
	5 0.015771	25.000035	0.636	1.00366
	6 0.016560	19.176177	0.551	1.00616
	7 0.017158	15.923745	0.492	1.00848
	8 0.017626	13.880055	0.449	1.01055
	9 0.018001	12.489101	0.416	1.01237
	10 0.018308	11.486510	0.391	1.01397
	12 0.018780	10.145136	0.353	1.01660
	14 0.019124	9.293344	0.327	1.01868
	16 0.019387	8.706609	0.303	1.02034
	18 0.019593	8.278745	0.294	1.02170
	20 0.019760	7.953322	0.282	1.02283
	25 0.020062	7.402978	0.262	1.02496
	30 0.020265	7.059825	0.249	1.02645
	35 0.020411	6.825651	0.239	1.02755
	40 0.020521	6.655751	0.232	1.02840
	45 0.020606	6.526895	0.227	1.02906
	50 0.020675	6.425833	0.223	1.02960
	55 0.020731	6.344460	0.220	1.03005
	60 0.020778	6.277535	0.217	1.03043

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
4	1 0.013740	3 5798.309963	3.826	1.03097
	2 0.021576	3 03.307471	1.922	1.00798
	3 0.026597	63.062892	1.300	1.00128
	4 0.030028	33.302744	1.000	1.00000
	5 0.032491	21.970085	0.827	1.00064
	6 0.034333	16.748345	0.715	1.00194
	7 0.035757	13.838995	0.638	1.00341
	8 0.036889	12.014101	0.581	1.00496
	9 0.037803	10.773756	0.533	1.00622
	10 0.038569	9.880693	0.504	1.00747
	12 0.039754	8.687304	0.454	1.00964
	14 0.040633	7.930445	0.420	1.01143
	16 0.041310	7.409585	0.394	1.01290
	18 0.041847	7.030027	0.375	1.01413
	20 0.042284	6.741503	0.359	1.01517
	25 0.043308	6.253901	0.332	1.01718
	30 0.043631	5.950093	0.315	1.01861
	35 0.044025	5.742874	0.302	1.01969
	40 0.044324	5.592586	0.293	1.02052
	45 0.044558	5.478637	0.286	1.02118
	50 0.044747	5.389237	0.280	1.02173
	55 0.044902	5.317354	0.275	1.02218
	60 0.045031	5.258204	0.272	1.02256

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
5	1 0.020166	34153.138139	4.606	1.03741
	2 0.032118	285.511753	2.320	1.01259
	3 0.040000	63.407449	1.571	1.00366
	4 0.045516	30.777953	1.210	1.00064
	5 0.049558	20.178266	1.000	1.00000
	6 0.052633	15.306210	0.865	1.00036
	7 0.055044	12.596457	0.770	1.00113
	8 0.056982	10.898985	0.701	1.00206
	9 0.058573	9.746409	0.648	1.00302
	10 0.059901	8.917203	0.607	1.00395
	12 0.061991	7.810107	0.546	1.00567
	14 0.063559	7.108610	0.503	1.00716
	16 0.064779	6.626160	0.472	1.00843
	18 0.065755	6.274761	0.448	1.00951
	20 0.066552	6.007744	0.429	1.01045
	25 0.068027	5.556638	0.395	1.01229
	30 0.069040	5.275784	0.373	1.01363
	35 0.069778	5.084248	0.358	1.01466
	40 0.070339	4.945365	0.346	1.01546
	45 0.070780	4.840081	0.337	1.01611
	50 0.071137	4.757536	0.330	1.01664
	55 0.071430	4.691039	0.324	1.01703
	60 0.071676	4.636454	0.319	1.01746

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
6	1 0.025806	33128.586435	5.294	1.04225
	2 0.041543	274.126239	2.674	1.01650
	3 0.052148	60.387557	1.815	1.00616
	4 0.059707	29.126459	1.399	1.00194
	5 0.065333	18.999595	1.157	1.00036
	6 0.069669	14.353662	1.000	1.00000
	7 0.073107	11.773152	0.891	1.00022
	8 0.075897	10.158251	0.810	1.00071
	9 0.078205	9.062370	0.749	1.00133
	10 0.080146	8.274761	0.701	1.00200
	12 0.083226	7.223604	0.629	1.00331
	14 0.085561	6.557977	0.579	1.00452
	16 0.087390	6.100400	0.542	1.00559
	18 0.088861	5.767225	0.514	1.00654
	20 0.090071	5.514115	0.492	1.00736
	25 0.092323	5.086672	0.452	1.00903
	30 0.093880	4.820547	0.426	1.01028
	35 0.095022	4.639118	0.407	1.01124
	40 0.095893	4.507580	0.393	1.01201
	45 0.096581	4.407871	0.383	1.01263
	50 0.097138	4.329702	0.374	1.01314
	55 0.097598	4.266781	0.367	1.01357
	60 0.097983	4.215046	0.362	1.01394

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
7	0.030630	32439.475373	5.897	1.04592
1	0.049717	266.281498	2.988	1.01573
2	0.062799	58.281405	2.033	1.00848
3	0.072260	27.966203	1.563	1.00341
4	0.079387	18.167392	1.298	1.00113
5	0.084939	13.678656	1.123	1.00022
6	0.089381	11.188081	1.000	1.00000
7	0.093014	9.630661	0.910	1.00014
8	0.096039	8.574589	0.840	1.00043
9	0.098598	7.815595	0.786	1.00091
10	0.102687	6.803354	0.705	1.00188
11	0.105311	6.162660	0.648	1.00234
12	0.108275	5.722354	0.606	1.00373
13	0.110268	5.401319	0.574	1.00434
14	0.111913	5.158346	0.548	1.00527
15	0.114994	4.747239	0.503	1.00676
16	0.117139	4.491318	0.473	1.00731
17	0.118719	4.316856	0.452	1.00882
18	0.119930	4.190372	0.436	1.00954
19	0.120989	4.094497	0.424	1.01013
20	0.121665	4.019333	0.414	1.01062
25	0.122308	3.958830	0.406	1.01104
30	0.122849	3.909084	0.399	1.01140

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
8	0.034735	31949.023413	6.428	1.04878
1	0.056752	260.578094	3.268	1.02241
2	0.072046	56.733955	2.227	1.01055
3	0.083236	27.103304	1.721	1.00486
4	0.091752	17.549391	1.426	1.00206
5	0.098442	13.175730	1.234	1.00071
6	0.103835	10.751115	1.099	1.00014
7	0.108274	9.235825	1.000	1.00000
8	0.111992	8.208780	0.924	1.00010
9	0.115151	7.470893	0.863	1.00033
10	0.120231	6.487136	0.774	1.00100
11	0.124139	5.864666	0.711	1.00174
12	0.127238	5.436965	0.665	1.00248
13	0.129757	5.125642	0.629	1.00316
14	0.131844	4.889184	0.600	1.00380
15	0.135773	4.489941	0.549	1.00515
16	0.138525	4.241409	0.516	1.00619
17	0.140555	4.071932	0.492	1.00703
18	0.142125	3.949143	0.474	1.00771
19	0.143367	3.856027	0.460	1.00827
20	0.144376	3.783023	0.449	1.00874
25	0.145212	3.724258	0.441	1.00914
30	0.145917	3.675939	0.433	1.00948

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0382239	31584.550664	6.896	1.05107
2	0.0628120	2556.2559579	3.517	1.02466
3	0.080070	55.551515	2.402	1.01237
4	0.092819	26.449153	1.859	1.00622
5	0.102602	17.072769	1.542	1.00302
6	0.110344	12.786859	1.335	1.00133
7	0.116624	10.412422	1.190	1.00048
8	0.121821	8.929236	1.083	1.00010
9	0.126194	7.924299	1.000	1.00000
10	0.129926	7.202480	0.935	1.00007
12	0.135960	6.240382	0.838	1.00048
14	0.140628	5.631746	0.769	1.00103
16	0.144349	5.213596	0.718	1.00162
18	0.147385	4.909242	0.675	1.00220
20	0.149909	4.678080	0.648	1.00274
25	0.154685	4.287773	0.592	1.00393
30	0.158047	4.044737	0.555	1.00489
35	0.160542	3.879126	0.529	1.00567
40	0.162463	3.759007	0.509	1.00631
45	0.164000	3.667946	0.494	1.00684
50	0.165247	3.596548	0.482	1.00729
55	0.166282	3.539071	0.473	1.00767
60	0.167155	3.491809	0.464	1.00800

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.041250	31304.346633	7.311	1.05293
2	0.0680038	252.884196	3.739	1.02655
3	0.087059	54.619948	2.560	1.01397
4	0.101207	25.927370	1.984	1.00747
5	0.112143	16.694234	1.647	1.00395
6	0.120849	12.477213	1.427	1.00200
7	0.127949	10.142239	1.273	1.00091
8	0.133353	8.684270	1.159	1.00033
9	0.138341	7.696689	1.070	1.00007
10	0.143113	6.987475	1.000	1.00000
12	0.150052	6.042347	0.896	1.00018
14	0.155450	5.444527	0.823	1.00057
16	0.159771	5.033830	0.768	1.00103
18	0.163309	4.734902	0.725	1.00151
20	0.166260	4.507855	0.692	1.00197
25	0.171866	4.124470	0.631	1.00302
30	0.175832	3.885760	0.591	1.00339
35	0.178787	3.722993	0.563	1.00461
40	0.181074	3.604953	0.541	1.00521
45	0.182896	3.515466	0.525	1.00572
50	0.184383	3.445291	0.512	1.00615
55	0.185619	3.388794	0.501	1.00651
60	0.186662	3.342334	0.492	1.00683

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
12 1	0.046131	30904.077500	8.012	1.05578
2	0.076636	247.962563	4.120	1.02956
3	0.098369	53.248403	2.832	1.01660
4	0.115111	25.154665	2.201	1.00954
5	0.128039	16.131403	1.832	1.00567
6	0.138435	12.015408	1.589	1.00331
7	0.146986	9.738305	1.418	1.00188
8	0.154151	8.317295	1.292	1.00100
9	0.160247	7.355128	1.194	1.00048
10	0.165499	6.664347	1.116	1.00018
12	0.174095	5.743981	1.000	1.00000
14	0.180842	5.161894	0.918	1.00011
16	0.186284	4.761999	0.856	1.00035
18	0.190768	4.470906	0.808	1.00066
20	0.194528	4.249782	0.770	1.00093
25	0.201723	3.876303	0.701	1.00179
30	0.206857	3.643669	0.656	1.00250
35	0.210706	3.484984	0.623	1.00312
40	0.213701	3.369871	0.599	1.00364
45	0.216097	3.282569	0.580	1.00402
50	0.218058	3.214093	0.564	1.00447
55	0.219692	3.158952	0.552	1.00431
60	0.221076	3.113597	0.542	1.00510

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
14 1	0.049397	30633.624669	8.580	1.05784
2	0.083317	244.557468	4.432	1.03133
3	0.107604	52.289035	3.057	1.01868
4	0.126096	24.610616	2.383	1.01143
5	0.140674	13.733310	1.986	1.00716
6	0.152486	11.687634	1.726	1.00452
7	0.162268	9.450802	1.543	1.00284
8	0.170313	8.055483	1.406	1.00174
9	0.177565	7.110955	1.300	1.00103
10	0.183671	6.432942	1.216	1.00057
12	0.193727	5.529674	1.090	1.00011
14	0.201678	4.958394	1.000	1.00000
16	0.208130	4.565878	0.933	1.00007
18	0.213474	4.280109	0.880	1.00023
20	0.217975	4.062986	0.838	1.00045
25	0.226644	3.696139	0.763	1.00104
30	0.232874	3.467518	0.712	1.00162
35	0.237572	3.311499	0.675	1.00213
40	0.241243	3.198272	0.649	1.00259
45	0.244190	3.112371	0.627	1.00299
50	0.246610	3.044973	0.610	1.00333
55	0.248632	2.990634	0.596	1.00364
60	0.250347	2.946020	0.585	1.00391

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.052882	30439.605696	9.0447	1.05541
2	0.088647	242.067431	4.692	1.03360
3	0.114855	51.581339	3.246	1.02034
4	0.134960	24.207197	2.537	1.01290
5	0.150917	15.437045	2.119	1.00843
6	0.163924	11.443018	1.844	1.00559
7	0.174753	9.235750	1.649	1.00373
8	0.183926	7.859271	1.504	1.00248
9	0.191806	6.927655	1.392	1.00162
10	0.198656	6.258972	1.302	1.00103
11	0.209996	5.368152	1.168	1.00035
12	0.219016	4.804696	1.072	1.00007
13	0.226373	4.417492	1.000	1.00000
14	0.232494	4.135529	0.944	1.00005
15	0.237670	3.921250	0.899	1.00001
20	0.247691	3.559064	0.817	1.00053
30	0.254940	3.332200	0.762	1.00103
35	0.260434	3.179015	0.722	1.00147
40	0.264742	3.067036	0.693	1.00186
45	0.268214	2.982082	0.669	1.00221
50	0.271071	2.915339	0.651	1.00252
55	0.273464	2.861652	0.635	1.00280
60	0.275498	2.817429	0.623	1.00304

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
13	0.055299	30294.089137	9.437	1.06063
2	0.092990	240.170001	4.911	1.03501
3	0.122079	51.038254	3.407	1.02170
4	0.142247	23.396306	2.668	1.01413
5	0.159369	15.208054	2.232	1.00951
6	0.173394	11.255514	1.945	1.00654
7	0.185123	9.068837	1.742	1.00454
8	0.195098	7.706735	1.590	1.00316
9	0.203697	6.784958	1.473	1.00220
10	0.211193	6.123367	1.379	1.00151
11	0.217368	5.524197	1.237	1.00066
12	0.222363	4.968441	1.136	1.00023
13	0.226363	4.430118	1.060	1.00005
14	0.229480	4.022057	1.000	1.00000
15	0.231862	3.809877	0.952	1.00003
20	0.235441	3.451090	0.865	1.00030
25	0.236576	3.227230	0.806	1.00065
30	0.238668	3.074300	0.764	1.00100
35	0.238010	2.963213	0.732	1.00134
40	0.238397	2.878365	0.707	1.00165
45	0.239224	2.812540	0.687	1.00193
50	0.239499	2.759262	0.670	1.00218
55	0.239733	2.715332	0.656	1.00240

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
20	0.057296	1.145217	0.7691	1.06162
1	0.0096592	0.677552	0.093	1.03617
2	0.0125734	0.608578	0.546	1.02283
3	0.0148335	0.649480	0.782	1.01517
4	0.0166452	0.5025806	0.331	1.01045
5	0.0181353	1.102405	2.0034	1.00736
6	0.0193861	0.935330	1.824	1.00527
7	0.0204533	0.584746	1.626	1.00380
8	0.0213763	0.670700	1.544	1.00274
9	0.0221183	0.014671	1.446	1.00197
10	0.0225306	0.140653	1.399	1.00098
11	0.0224612	0.587673	1.393	1.00045
12	0.0225503	0.2007514	1.313	1.00016
13	0.0226247	0.930552	1.050	1.00003
14	0.0226882	0.3719967	1.000	1.00000
15	0.0226812	0.363730	0.908	1.00001
16	0.0227002	0.141327	0.846	1.00003
17	0.0227971	0.939308	0.801	1.00006
18	0.0228026	0.878830	0.763	1.00009
19	0.0228079	0.794909	0.741	1.00012
20	0.0228107	0.728994	0.719	1.00014
21	0.0228138	0.675848	0.702	1.00017
22	0.0228164	0.632086	0.687	1.00019

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
25	0.061033	0.778133	0.411	1.06340
1	0.0103337	0.049924	0.466	1.03330
2	0.0133508	0.346294	0.820	1.02436
3	0.0159900	0.209600	3.0009	1.01719
4	0.0179963	0.699968	2.530	1.01225
5	0.0196392	0.831560	2.214	1.00903
6	0.0210649	0.696092	1.989	1.00676
7	0.0222720	0.365234	1.820	1.00513
8	0.0233322	0.6464767	1.639	1.00393
9	0.0242455	0.818476	1.584	1.00302
10	0.0257978	0.957290	1.426	1.00179
11	0.0270553	0.4412211	1.311	1.00104
12	0.0280973	0.037286	1.234	1.00058
13	0.0289764	0.763378	1.136	1.00030
14	0.0297289	0.556045	1.100	1.00013
15	0.0312116	0.203934	1.000	1.00000
16	0.0323073	0.883781	0.931	1.00007
17	0.0335151	0.833099	0.881	1.00002
18	0.0343823	0.723461	0.843	1.00004
19	0.0348248	0.640090	0.813	1.00005
20	0.0352087	0.574544	0.786	1.00007
21	0.0355373	0.521651	0.769	1.00009
22		0.478066	0.752	1.00011

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.063628	0.314153	10.8755	1.06459
31	0.108106	0.341399	5.7335	1.03676
32	0.141647	0.346348	4.0233	1.02645
33	0.168065	0.291962	3.1179	1.01867
34	0.189545	0.148839	2.6800	1.01363
35	0.207445	0.651355	2.3500	1.01028
36	0.222652	8.536841	2.1155	1.00797
37	0.235771	7.321892	1.9399	1.00619
38	0.247232	5.327235	1.8022	1.00489
39	0.257350	5.687233	1.6922	1.00389
40	0.264449	4.933425	1.5255	1.00250
41	0.268839	4.329416	1.4004	1.00162
42	0.270000	3.922248	1.3115	1.00093
43	0.270963	3.651400	1.2340	1.00065
44	0.271833	3.445043	1.1882	1.00039
45	0.272514	3.095273	1.1074	1.00007
46	0.273071	3.876285	1.0000	1.00000
47	0.273489	2.726214	0.946	1.00004
48	0.273651	2.616395	0.905	1.00001
49	0.273715	2.533682	0.872	1.00002
50	0.273768	2.468201	0.846	1.00003
51	0.273813	2.415317	0.824	1.00005
52	0.273851	2.371706	0.805	1.00006

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
35	0.065533	0.293342	11.2225	1.06544
36	0.111593	0.142758	5.9400	1.04082
37	0.146506	0.993432	4.1179	1.02755
38	0.174129	2.271417	3.3110	1.01639
39	0.196686	1.331257	2.7956	1.01466
40	0.215558	1.052393	2.456	1.01324
41	0.231650	8.423280	2.214	1.00883
42	0.243531	7.114436	2.033	1.00703
43	0.251790	6.322839	1.891	1.00567
44	0.256860	5.533251	1.777	1.00461
45	0.258694	4.745941	1.605	1.00392
46	0.259785	4.209246	1.480	1.00291
47	0.259563	3.939751	1.384	1.00144
48	0.258277	3.570123	1.309	1.00000
49	0.255252	3.364792	1.248	1.00068
50	0.252970	3.016437	1.135	1.00029
51	0.266805	2.798073	1.057	1.00004
52	0.277607	2.648255	1.000	1.00000
53	0.386283	2.539003	0.956	1.00003
54	0.393415	2.455770	0.921	1.00009
55	0.399337	2.390213	0.893	1.00017
56	0.404462	2.337226	0.870	1.00026
57	0.408832	2.293500	0.850	1.00036

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
40	1 0.066990	29712.371844	11.499	1.06608
	2 0.114277	232.255889	6.101	1.04162
	3 0.150246	49.731066	4.302	1.02840
	4 0.178808	22.561029	3.415	1.02052
	5 0.202210	14.216880	2.890	1.01546
	6 0.221849	10.428239	2.542	1.01201
	7 0.238642	8.338214	2.295	1.00954
	8 0.253220	7.036070	2.109	1.00771
	9 0.266028	6.155055	1.964	1.00631
	10 0.277396	5.522615	1.847	1.00521
	11 0.287747	4.678443	1.767	1.00364
	12 0.312669	4.145203	1.542	1.00259
	14 0.326046	3.777253	1.444	1.00186
	16 0.337472	3.508654	1.366	1.00134
	20 0.347363	3.303935	1.303	1.00096
	25 0.357180	3.295657	1.186	1.00040
	30 0.382132	2.738522	1.103	1.00014
	35 0.393855	2.588775	1.046	1.00003
	40 0.403311	2.479475	1.000	1.00000
	45 0.411112	2.396123	0.964	1.00000
	50 0.417663	2.330423	0.934	1.00000
	55 0.423247	2.277233	0.909	1.00001
	60 0.428064	2.233399	0.888	1.00019

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
45	1 0.068141	29664.386133	11.719	1.06658
	2 0.116393	231.573373	6.231	1.04225
	3 0.153212	48.528421	4.402	1.02906
	4 0.182527	22.442483	3.500	1.02118
	5 0.206608	14.128210	2.966	1.01611
	6 0.226867	10.353961	2.613	1.01263
	7 0.244230	8.272115	2.361	1.01013
	8 0.259334	6.975119	2.172	1.00827
	9 0.272632	6.097572	2.024	1.00694
	10 0.284457	5.467533	1.905	1.00572
	12 0.300469	4.627559	1.723	1.00409
	14 0.321298	4.095163	1.594	1.00299
	16 0.335336	3.728370	1.494	1.00221
	18 0.347355	3.460508	1.414	1.00165
	20 0.357793	3.256335	1.350	1.00123
	25 0.378775	2.909496	1.230	1.00058
	30 0.394683	2.691621	1.147	1.00025
	35 0.407204	2.541844	1.085	1.00009
	40 0.417341	2.432427	1.038	1.00002
	45 0.425729	2.348913	1.000	1.00000
	50 0.433279	2.283046	0.969	1.00001
	55 0.438825	2.229730	0.943	1.00005
	60 0.444040	2.185673	0.921	1.00009

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
50	0.0669072	26.601254	11.8999	.06698
51	0.118117	23.031976	6.3339	.04276
52	0.155622	48.367207	4.485	.02960
53	0.185533	22.348013	3.571	.02173
54	0.210193	14.057460	3.030	.01664
55	0.230963	8.294635	2.672	.01314
56	0.248798	6.219277	2.416	.01062
57	0.264335	6.926353	2.225	.00874
58	0.278044	6.051533	2.075	.00729
59	0.290251	5.423498	1.955	.00615
60	0.311130	4.585343	1.772	.00447
61	0.322841	4.054936	1.633	.00333
62	0.334300	3.689073	1.537	.00252
63	0.335533	3.421763	1.456	.00199
64	0.336643	3.217931	1.390	.00148
65	0.338841	3.071315	1.268	.00103
66	0.405153	2.653702	1.183	.00078
67	0.418337	2.503340	1.120	.00057
68	0.429910	2.394273	1.071	.00046
69	0.433801	2.310390	1.032	.00038
70	0.445527	2.244534	1.000	.00030
71	0.451961	2.191034	0.973	.00021
72	0.457534	2.146801	0.951	.00003

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
55	0.069841	29.5606	12.050	.06730
56	0.119540	23.052101	6.429	.04318
57	0.157613	48.235305	4.553	.03005
58	0.188063	22.270962	3.631	.02218
59	0.213170	13.999693	3.084	.01708
60	0.233436	8.246661	2.722	.01357
61	0.252500	6.176073	2.464	.01104
62	0.268511	6.033643	2.270	.00914
63	0.282560	5.013873	2.113	.00767
64	0.295090	4.397336	1.997	.00651
65	0.316561	3.551313	1.812	.00481
66	0.333437	4.022007	1.677	.00364
67	0.349449	3.556790	1.574	.00280
68	0.362416	3.389917	1.492	.00218
69	0.373713	3.186368	1.425	.00170
70	0.396566	3.402007	1.301	.00094
71	0.414024	2.622394	1.214	.00051
72	0.427853	2.472413	1.150	.00026
73	0.439122	2.362889	1.100	.00019
74	0.448485	2.278823	1.060	.00013
75	0.456405	2.213532	1.027	.00001
76	0.463196	2.158902	1.000	.00000
77	0.469993	2.114494	0.977	.00000

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
60	1 0.070487	29570.9335377	12.173	1.06757
	2 0.120736	230.227673	6.505	1.04353
	3 0.159298	48.126905	4.614	1.03043
	4 0.190179	22.206923	3.682	1.02256
	5 0.215682	13.951649	3.130	1.01746
	6 0.237245	10.205311	2.765	1.01394
	7 0.255814	8.140039	2.504	1.01140
	8 0.272035	6.853216	2.309	1.00948
	9 0.286385	5.982467	2.156	1.00800
	10 0.299192	5.357263	2.033	1.00683
	12 0.321172	4.523328	1.846	1.00510
	14 0.339441	3.994452	1.710	1.00391
	16 0.354934	3.629795	1.605	1.00304
	18 0.368280	3.363264	1.523	1.00240
	20 0.379927	3.159920	1.456	1.00191
	25 0.403541	2.813948	1.330	1.00110
	30 0.421637	2.596099	1.242	1.00063
	35 0.436015	2.445994	1.177	1.00036
	40 0.447748	2.336097	1.126	1.00019
	45 0.457525	2.252052	1.085	1.00009
	50 0.465809	2.185630	1.052	1.00003
	55 0.472926	2.131772	1.024	1.00001
	60 0.479112	2.087196	1.000	1.00000

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
1	1621138.207261	1.0000	1.00000	
2	991.190897	0.5002	1.00773	
3	423.051303	0.3336	1.01743	
4	168.474393	0.2555	1.02500	
5	99.738947	0.2008	1.03064	
6	71.222991	0.178	1.03487	
7	56.242180	0.159	1.03813	
8	47.436921	0.144	1.04068	
9	41.683800	0.133	1.04272	
10	37.627226	0.124	1.04439	
11	33.448918	0.111	1.04695	
12	29.183709	0.103	1.04881	
13	26.964217	0.098	1.05022	
14	25.423784	0.092	1.05131	
15	24.324287	0.087	1.05219	
16	22.318370	0.082	1.05379	
17	21.159256	0.077	1.05495	
18	20.033876	0.075	1.05561	
19	19.977194	0.073	1.05618	
20	19.936449	0.070	1.05663	
21	19.978313	0.070	1.05698	
22	19.753152	0.068	1.05727	
23	19.499475	0.068	1.05751	

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

2 DF	C-1	C-2	A-2/A-1	REDUCTION
1	0.0000334	1125374.063990	1.9999	1.00773
2	0.0000500	1959.003676	1.0000	1.00000
3	0.0000599	274.254030	0.6700	1.00251
4	0.0000663	106.889934	0.5090	1.00675
5	0.0000707	62.173830	0.4166	1.01082
6	0.0000738	43.852814	0.3556	1.01433
7	0.0000764	34.400202	0.3151	1.01727
8	0.0000779	28.786454	0.2835	1.01973
9	0.0000793	25.123208	0.2622	1.02180
10	0.0000804	22.567706	0.2444	1.02355
11	0.0000821	19.926722	0.2138	1.02633
12	0.0000833	17.246099	0.2001	1.02844
13	0.0000842	15.989656	0.1883	1.03003
14	0.0000849	14.919719	0.1793	1.03140
15	0.0000855	14.193124	0.1710	1.03247
16	0.0000865	12.986948	0.1577	1.03445
17	0.0000871	12.249852	0.1488	1.03580
18	0.0000876	11.753518	0.1421	1.03678
19	0.0000879	11.396942	0.1388	1.03752
20	0.0000883	11.129473	0.1343	1.03810
21	0.0000884	10.919153	0.1329	1.03857
22	0.0000888	10.751454	0.1299	1.03896
23	0.0000888	10.614018	0.1277	1.03928

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
3	1 0.002362	963395.689596	2.983	1.01743
	2 0.003646	1669.144862	1.493	1.00251
	3 0.004450	224.701141	1.000	1.00000
	4 0.004992	86.317042	0.760	1.00112
	5 0.005377	49.653468	0.620	1.00327
	6 0.005660	34.712662	0.530	1.00557
	7 0.005876	27.039247	0.469	1.00773
	8 0.006045	22.497283	0.422	1.00967
	9 0.006182	19.541352	0.388	1.01138
	10 0.006293	17.483586	0.361	1.01289
	12 0.006464	14.832357	0.322	1.01539
	14 0.006589	13.213106	0.295	1.01737
	16 0.006684	12.133527	0.275	1.01895
	18 0.006758	11.11114	0.260	1.02024
	20 0.006818	10.774743	0.248	1.02132
	25 0.006927	9.814476	0.228	1.02334
	30 0.006999	9.228572	0.214	1.02476
	35 0.007052	8.8334584	0.205	1.02580
	40 0.007091	8.551763	0.198	1.02659
	45 0.007121	8.338998	0.193	1.02722
	50 0.007146	8.173174	0.188	1.02774
	55 0.007166	8.040337	0.185	1.02816
	60 0.007182	7.951554	0.182	1.02851

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
4	1 0.005934	885852.587311	3.923	1.02500
	2 0.009335	1508.352838	1.964	1.00673
	3 0.011535	200.301837	1.217	1.00112
	4 0.013136	76.124157	1.000	1.00000
	5 0.014265	43.421099	0.816	1.00059
	6 0.015117	30.150648	0.697	1.00180
	7 0.015779	23.356646	0.614	1.00318
	8 0.016306	19.345027	0.554	1.00457
	9 0.016735	16.739280	0.503	1.00587
	10 0.017091	14.923150	0.472	1.00707
	12 0.017646	12.598833	0.420	1.00916
	14 0.018057	11.178931	0.384	1.01089
	16 0.018372	10.229227	0.357	1.01231
	18 0.018624	9.551835	0.337	1.01350
	20 0.018823	9.045583	0.321	1.01451
	25 0.019202	8.207369	0.293	1.01644
	30 0.019456	7.696563	0.275	1.01783
	35 0.019639	7.353369	0.263	1.01886
	40 0.019778	7.107169	0.253	1.01966
	45 0.019886	6.922042	0.246	1.02030
	50 0.019974	6.777319	0.240	1.02082
	55 0.020045	6.662320	0.236	1.02125
	60 0.020105	6.567754	0.232	1.02162

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
5 1	0.010039	841903.296512	4.795	1.03064
2	0.016083	1415.176834	2.405	1.01082
3	0.020140	185.990814	1.613	1.00327
4	0.023030	70.100813	1.226	1.00059
5	0.025177	39.719451	1.000	1.00000
6	0.026824	27.431165	0.854	1.00034
7	0.028123	21.155265	0.752	1.00108
8	0.029172	17.456497	0.678	1.00197
9	0.030034	15.057536	0.621	1.00289
10	0.030756	13.392150	0.577	1.00380
12	0.031893	11.253181	0.512	1.00547
14	0.032747	9.952133	0.467	1.00692
16	0.033411	9.081335	0.434	1.00816
18	0.033943	8.461447	0.409	1.00922
20	0.034377	7.998400	0.389	1.01014
25	0.035180	7.232433	0.354	1.01193
30	0.035731	6.766080	0.331	1.01324
35	0.036132	6.452952	0.315	1.01424
40	0.036437	6.228433	0.303	1.01502
45	0.036676	6.059650	0.294	1.01565
50	0.036870	5.928203	0.287	1.01616
55	0.037029	5.822966	0.281	1.01659
60	0.037162	5.736816	0.276	1.01696

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
6 1	0.014063	814296.817357	5.591	1.03488
2	0.0228004	13355.295169	2.809	1.01433
3	0.0288008	1176.679965	1.887	1.00557
4	0.033167	66.152246	1.435	1.00180
5	0.0364355	37.280424	1.171	1.00034
6	0.039013	25.632646	1.000	1.00000
7	0.041054	19.693260	0.881	1.00021
8	0.042718	16.201179	0.793	1.00069
9	0.044099	13.937630	0.727	1.00129
10	0.045262	12.367736	0.675	1.00194
12	0.047113	10.035334	0.598	1.00323
14	0.048518	9.128934	0.544	1.00441
16	0.049620	8.311413	0.505	1.00547
18	0.050507	7.729215	0.475	1.00640
20	0.051236	7.294338	0.452	1.00721
25	0.052595	6.575948	0.410	1.00885
30	0.053535	6.138736	0.383	1.01008
35	0.054223	5.845308	0.363	1.01102
40	0.054749	5.634976	0.349	1.01177
45	0.055163	5.476915	0.338	1.01238
50	0.055499	5.353839	0.330	1.01288
55	0.055776	5.255313	0.323	1.01330
60	0.056008	5.174670	0.317	1.01366

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
7	1	795663.744872	6.310	1.03813
	2	1313.987056	3.178	1.01727
	3	170.182650	2.138	1.00773
	4	63.377324	1.628	1.00318
	5	35.558145	1.329	1.00108
	6	24.358220	1.135	1.00021
	7	18.657943	1.000	1.00000
	8	15.307390	0.901	1.00014
	9	13.138864	0.825	1.00047
	10	11.636012	0.765	1.00089
	11	9.709470	0.677	1.00184
	12	8.539182	0.616	1.00279
	14	7.758443	0.571	1.00367
	16	7.202705	0.537	1.00447
	18	6.787945	0.510	1.00519
	20	6.410260	0.481	1.00567
	25	5.685821	0.430	1.00780
	30	5.406197	0.408	1.00869
	40	5.203303	0.391	1.00940
	50	5.055245	0.379	1.00999
	55	4.938023	0.369	1.01047
	55	4.844193	0.360	1.01088
	60	4.767401	0.354	1.01123

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
8	1	7822295.364106	6.959	1.04068
	2	1283.975147	3.514	1.01973
	3	165.412409	2.368	1.00967
	4	61.326945	1.805	1.00457
	5	34.280028	1.475	1.00197
	6	23.409459	1.260	1.00069
	7	17.883814	1.110	1.00014
	8	14.639070	1.000	1.00000
	9	12.540631	0.916	1.00010
	10	11.225345	0.849	1.00033
	12	9.225330	0.751	1.00098
	14	8.095131	0.683	1.00172
	16	7.341571	0.633	1.00245
	18	6.805347	0.594	1.00315
	20	6.405266	0.563	1.00376
	25	5.744404	0.509	1.00508
	30	5.342655	0.474	1.00612
	35	5.073176	0.449	1.00696
	40	4.880087	0.430	1.00763
	45	4.735026	0.416	1.00819
	50	4.622097	0.404	1.00865
	55	4.531709	0.395	1.00904
	60	4.457737	0.387	1.00938

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
9	0.023978	772547.509131	7.544	1.04272
1	0.039804	1261.287900	3.818	1.02180
2	0.051174	161.772476	2.578	1.01138
3	0.059740	59.753443	1.967	1.00587
4	0.066412	33.295367	1.609	1.00289
5	0.071748	22.676449	1.376	1.00129
6	0.076110	17.284404	1.212	1.00047
7	0.079741	14.120669	1.092	1.00010
8	0.082809	12.075913	1.000	1.00000
9	0.085437	10.660421	0.927	1.00007
10	0.089701	8.848100	0.820	1.00047
11	0.093013	7.748602	0.745	1.00102
12	0.095660	7.015757	0.690	1.00161
13	0.097823	6.494459	0.647	1.00213
14	0.099625	6.105600	0.613	1.00272
15	0.103039	5.463433	0.553	1.00390
16	0.105447	5.073145	0.514	1.00485
17	0.107237	4.811392	0.486	1.00563
18	0.108619	4.623855	0.466	1.00626
19	0.109719	4.432973	0.450	1.00679
20	0.110613	4.373303	0.437	1.00723
25	0.111359	4.285526	0.427	1.00761
30	0.111986	4.213693	0.418	1.00794

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
10	0.026555	764992.925695	8.071	1.04439
1	0.044311	1243.593059	4.095	1.02355
2	0.057195	158.909681	2.770	1.01289
3	0.066988	58.509607	2.117	1.00707
4	0.074671	32.514309	1.733	1.00380
5	0.080856	22.093529	1.482	1.00194
6	0.085940	16.806784	1.307	1.00089
7	0.090194	13.706934	1.178	1.00033
8	0.093805	11.704526	1.073	1.00007
9	0.096909	10.318929	1.000	1.00000
10	0.101973	8.545686	0.884	1.00013
11	0.105928	7.470332	0.803	1.00056
12	0.109104	6.753905	0.743	1.00102
13	0.111710	6.244358	0.697	1.00150
14	0.113889	5.864325	0.660	1.00196
15	0.118035	5.236843	0.595	1.00300
16	0.120975	4.855539	0.552	1.00387
17	0.123168	4.599833	0.521	1.00459
18	0.124867	4.418636	0.489	1.00519
19	0.126223	4.279017	0.481	1.00569
20	0.127329	4.171887	0.467	1.00611
25	0.128249	4.086144	0.456	1.00648
30	0.129027	4.015975	0.447	1.00679

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
12	0.030852	754243.757405	8.980	1.04695
1	0.051902	1217.880241	4.577	1.02633
2	0.067420	154.705967	3.107	1.01539
3	0.079372	56.671572	2.380	1.00916
4	0.088864	31.355143	1.953	1.00547
5	0.096585	21.225648	1.673	1.00323
6	0.102992	16.093897	1.476	1.00184
7	0.108397	13.088139	1.331	1.00098
8	0.113019	11.148113	1.219	1.00047
9	0.117018	9.806550	1.131	1.00018
10	0.123597	9.090844	1.000	1.00000
11	0.128786	7.051149	0.909	1.00011
12	0.132936	6.358690	0.839	1.00035
13	0.136457	5.866377	0.786	1.00066
14	0.139375	5.499271	0.744	1.00098
15	0.144974	4.893245	0.670	1.00178
16	0.148980	4.523025	0.620	1.00250
17	0.151991	4.278095	0.583	1.00311
18	0.154336	4.101130	0.553	1.00363
19	0.156215	3.963274	0.533	1.00408
20	0.157754	3.864307	0.522	1.00446
21	0.159038	3.781990	0.509	1.00480
22	0.160125	3.714211	0.498	1.00509

CONFIDENCE LEVEL=.999  
SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
14	0.0334261	747024.209843	9.733	1.04981
1	0.057984	1200.174231	4.983	1.02344
2	0.075682	151.776040	3.392	1.01737
3	0.089454	55.381140	2.605	1.01039
4	0.100490	30.537270	2.141	1.00692
5	0.109542	20.611030	1.837	1.00441
6	0.117107	15.587567	1.623	1.00279
7	0.123530	12.647582	1.464	1.00172
8	0.129056	10.751165	1.343	1.00102
9	0.133862	9.440376	1.245	1.00056
10	0.141821	7.764840	1.102	1.00011
11	0.148149	6.749954	1.000	1.00000
12	0.153306	6.074205	0.924	1.00007
13	0.157592	5.593848	0.856	1.00023
14	0.161212	5.235689	0.819	1.00045
15	0.168206	4.644453	0.736	1.00104
16	0.173252	4.285198	0.680	1.00162
17	0.177066	4.044252	0.641	1.00213
18	0.180052	3.871600	0.612	1.00259
19	0.182453	3.741878	0.589	1.00293
20	0.184426	3.640875	0.570	1.00323
21	0.186076	3.560021	0.553	1.00363
22	0.187477	3.493841	0.543	1.00390

CONFIDENCE LEVEL=.999  
SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
16	0.037013	741875.544866	10.3363	1.05021
1	0.062934	1187.282389	5.3324	1.03008
2	0.082450	149.621715	3.6355	1.01895
3	0.097759	54.426731	2.798	1.01231
4	0.110116	29.929934	2.304	1.00916
5	0.120316	20.153253	1.979	1.00547
6	0.128892	15.209542	1.751	1.00367
7	0.136211	12.318010	1.581	1.00245
8	0.142536	10.453714	1.450	1.00161
9	0.148062	9.165579	1.346	1.00102
10	0.157265	7.519582	1.191	1.00035
11	0.164631	6.522901	1.082	1.00007
12	0.170666	5.859382	1.000	1.00000
13	0.175707	5.387754	0.937	1.00005
14	0.179982	5.036107	0.886	1.00016
15	0.188292	4.455587	0.795	1.00053
16	0.194313	4.102733	0.734	1.00104
17	0.198915	3.866114	0.691	1.00147
18	0.202522	3.696490	0.659	1.00186
19	0.205433	3.569019	0.634	1.00221
20	0.207831	3.469750	0.613	1.00253
21	0.209842	3.390170	0.597	1.00280
22	0.211553	3.325205	0.583	1.00304

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
18	0.039274	738034.933696	10.899	1.05131
1	0.067026	1177.497022	5.616	1.03140
2	0.088074	147.973224	3.845	1.02034
3	0.104691	53.692891	2.966	1.01350
4	0.118183	29.461416	2.446	1.00922
5	0.129379	20.789231	2.104	1.00640
6	0.138337	14.916614	1.863	1.00447
7	0.146943	12.062204	1.684	1.00313
8	0.153977	10.222508	1.546	1.00219
9	0.160145	9.351713	1.436	1.00150
10	0.170463	7.322829	1.272	1.00066
11	0.178768	6.345504	1.155	1.00023
12	0.185606	5.691291	1.063	1.00005
13	0.191341	5.236283	1.000	1.00000
14	0.196222	4.837956	0.946	1.00003
15	0.200575	4.307101	0.848	1.00030
16	0.212729	3.959110	0.783	1.00065
17	0.218052	3.725608	0.736	1.00100
18	0.222225	3.558211	0.701	1.00134
19	0.225653	3.432333	0.674	1.00165
20	0.228463	3.334372	0.652	1.00193
21	0.230824	3.255384	0.634	1.00213
22	0.232837	3.191619	0.619	1.00240

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
20	1 0.0041160	735068.7655898	11.357	1.05219
	2 0.0070457	1169.826597	5.869	1.03247
	3 0.0092810	146.672258	4.027	1.02132
	4 0.0110551	53.111430	3.113	1.01451
	5 0.0125025	29.089158	2.571	1.01014
	6 0.0137089	19.517360	2.214	1.00721
	7 0.0147320	14.692994	1.963	1.00516
	8 0.0156122	11.857903	1.775	1.00376
	9 0.0163784	10.037630	1.631	1.00277
	10 0.0170523	8.780517	1.515	1.00196
	11 0.0176818	7.174897	1.433	1.00139
	12 0.0182099	6.203018	1.343	1.00098
	13 0.0186566	5.556099	1.229	1.00066
	14 0.0190493	5.096265	1.105	1.00045
	15 0.0193997	4.753378	1.000	1.00033
	16 0.0197049	4.487163	0.897	1.00029
	17 0.0199689	4.282867	0.827	1.00026
	18 0.0201991	4.11775	0.779	1.00023
	19 0.0203968	4.00558	0.740	1.00020
	20 0.0205550	3.921459	0.711	1.00017
	21 0.0206755	3.852333	0.687	1.00014
	22 0.0207494	3.796626	0.668	1.00011
	23 0.0207817	3.752947	0.652	1.00009

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
25	1 0.0044736	729974.6557478	12.259	1.05379
	2 0.0077700	156.386702	6.372	1.03445
	3 0.0101890	44.372253	4.333	1.02334
	4 0.0121842	28.078015	3.409	1.01644
	5 0.0133266	20.425148	2.935	1.01163
	6 0.0142069	15.013188	2.544	1.00883
	7 0.0148635	11.264194	2.167	1.00667
	8 0.0153032	9.490966	1.964	1.00508
	9 0.0156303	8.170502	1.807	1.00390
	10 0.0158955	7.20074	1.682	1.00300
	11 0.0161111	6.497808	1.594	1.00217
	12 0.0162843	5.945090	1.539	1.00140
	13 0.0164243	5.531093	1.458	1.00078
	14 0.0165317	5.200070	1.379	1.00030
	15 0.0166125	4.923311	1.315	1.00000
	16 0.0166799	4.682753	1.260	1.00000
	17 0.0167371	4.473086	1.222	1.00000
	18 0.0167854	4.284000	1.190	1.00000
	19 0.0168250	4.113556	1.163	1.00000
	20 0.0168579	3.945229	1.141	1.00000
	21 0.0168832	3.782441	1.122	1.00000

CONFIDENCE LEVEL=.995  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
30	0.047251	726757.996903	12.921	1.054835
1	0.081634	147.698147	6.746	1.03580
2	0.108359	142.870028	4.668	1.02476
3	0.129928	51.398982	3.634	1.01783
4	0.147796	27.987041	3.019	1.01324
5	0.162900	18.679490	2.614	1.01008
6	0.175876	13.986287	2.326	1.00780
7	0.187173	11.246939	2.112	1.00612
8	0.197116	9.483406	1.945	1.00485
9	0.205950	8.266194	1.812	1.00387
10	0.212099	6.712294	1.613	1.00250
11	0.223336	5.771949	1.470	1.00162
12	0.224373	5.145945	1.362	1.00104
13	0.225258	4.700824	1.277	1.00065
14	0.226022	4.368745	1.209	1.00039
15	0.226754	3.813830	1.084	1.00007
16	0.228690	3.485499	1.000	1.00000
17	0.239581	3.260720	0.939	1.00004
18	0.230297	3.093277	0.856	1.00014
19	0.230885	2.977715	0.856	1.00026
20	0.231376	2.882875	0.826	1.00038
21	0.231793	2.806818	0.801	1.00051
22	0.232152	2.744463	0.781	1.00064

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
35	0.049114	724550.347690	13.427	1.05561
1	0.085081	141.629156	7.034	1.03673
2	0.113191	141.881283	4.882	1.02580
3	0.135999	50.919046	3.809	1.01886
4	0.154968	27.676463	3.172	1.01424
5	0.171077	18.442336	2.751	1.01102
6	0.184973	13.788452	2.453	1.00869
7	0.197115	11.072940	2.230	1.00696
8	0.207840	9.323155	2.056	1.00563
9	0.217399	8.113991	1.913	1.00459
10	0.223374	6.579343	1.710	1.00311
11	0.224726	5.647615	1.560	1.00213
12	0.225865	5.027265	1.447	1.00147
13	0.226841	4.586071	1.338	1.00100
14	0.227687	4.256835	1.286	1.00063
15	0.229385	3.712351	1.153	1.00022
16	0.230681	3.380449	1.065	1.00004
17	0.231674	3.157123	1.000	1.00000
18	0.232486	2.996599	0.950	1.00003
19	0.233155	2.873642	0.911	1.00009
20	0.233717	2.781214	0.879	1.00017
21	0.234196	2.703440	0.853	1.00026
22	0.234609	2.643281	0.830	1.00036

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
40	0.050547	722944.415545	13.825	1.05618
1	0.0877743	1137.154040	7.263	1.03752
2	0.1169355	141.023391	5.052	1.02659
3	0.1407003	50.561970	3.951	1.01966
4	0.160554	27.444864	3.296	1.01502
5	0.177463	18.265270	2.863	1.01177
6	0.192093	13.640456	2.553	1.00940
7	0.204914	10.942613	2.326	1.00763
8	0.216270	9.206491	2.148	1.00626
9	0.226417	9.008499	2.005	1.00519
10	0.235832	6.479367	1.790	1.00363
11	0.243829	5.533966	1.635	1.00259
12	0.250527	4.927743	1.518	1.00186
13	0.256104	4.493393	1.426	1.00134
14	0.260187	4.172203	1.351	1.00096
15	0.263086	3.930347	1.214	1.00040
16	0.265356	3.730060	1.121	1.00014
17	0.267122	3.578225	1.052	1.00003
18	0.268499	3.461323	1.000	1.00000
19	0.269508	3.379765	0.959	1.00002
20	0.270328	3.327034	0.925	1.00006
21	0.271063	3.287784	0.897	1.00012
22	0.271755	3.256593	0.873	1.00019

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
45	0.051683	721725.204956	14.149	1.05663
1	0.089359	1133.719437	7.449	1.03910
2	0.119929	140.424516	5.192	1.02722
3	0.144466	50.285935	4.067	1.02030
4	0.165026	27.265546	3.397	1.01565
5	0.182535	18.127947	2.955	1.01233
6	0.197814	13.525582	2.641	1.00999
7	0.211192	10.841353	2.406	1.00813
8	0.223066	9.114211	2.224	1.00679
9	0.233699	7.922303	2.078	1.00569
10	0.243199	6.401441	1.857	1.00408
11	0.251624	5.480875	1.699	1.00299
12	0.259189	4.867739	1.573	1.00221
13	0.265934	4.431590	1.484	1.00165
14	0.272073	4.105927	1.407	1.00123
15	0.277673	3.856687	1.266	1.00059
16	0.282748	3.623780	1.169	1.00026
17	0.287478	3.401606	1.098	1.00009
18	0.291744	3.285645	1.043	1.00002
19	0.295549	3.173603	1.000	1.00000
20	0.298811	3.064190	0.965	1.00001
21	0.301514	2.956628	0.935	1.00005
22	0.303759	2.850418	0.911	1.00009

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL





DF	C-1	C-2	A-2/A-1	REDUCTION
50	0.052606	720768.878863	14.415	1.05698
1	0.091532	1131.001294	7.603	1.03857
2	0.122351	139.944456	5.303	1.02774
3	0.147540	50.066316	4.163	1.02082
4	0.168685	27.122614	3.483	1.01616
5	0.186782	18.013369	3.033	1.01288
6	0.202510	13.433332	2.713	1.01047
7	0.216352	10.760412	2.474	1.00865
8	0.228660	9.040394	2.288	1.00723
9	0.239700	7.853668	2.139	1.00611
10	0.258745	6.338938	1.915	1.00446
11	0.274656	5.422234	1.753	1.00333
12	0.288205	4.811508	1.630	1.00252
13	0.299907	4.377082	1.533	1.00193
14	0.310137	4.052603	1.455	1.00148
15	0.330922	3.513293	1.310	1.00077
16	0.346876	3.187092	1.211	1.00038
17	0.359555	2.965790	1.138	1.00017
18	0.369900	2.806400	1.081	1.00006
19	0.378515	2.686068	1.037	1.00001
20	0.385308	2.591950	1.000	1.00000
25	0.392069	2.516317	0.970	1.00000
30	0.397504	2.454170	0.944	1.00000

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL

DF	C-1	C-2	A-2/A-1	REDUCTION
55	0.053371	719998.939225	14.638	1.05727
1	0.093301	1129.796812	7.733	1.03896
2	0.124373	139.553983	5.406	1.02816
3	0.150099	49.887338	4.245	1.02125
4	0.171734	27.006023	3.555	1.01659
5	0.190284	17.923303	3.099	1.01320
6	0.206433	13.353865	2.775	1.01088
7	0.220667	10.694233	2.532	1.00904
8	0.233344	9.930034	2.344	1.00761
9	0.244730	7.797321	2.193	1.00648
10	0.264411	6.237845	1.965	1.00430
11	0.280897	5.374133	1.800	1.00363
12	0.294962	4.765430	1.675	1.00280
13	0.307136	4.332303	1.577	1.00218
14	0.317301	4.003732	1.497	1.00171
15	0.339533	3.472823	1.349	1.00094
16	0.356275	3.145262	1.248	1.00051
17	0.369626	2.924255	1.173	1.00026
18	0.380549	2.765006	1.115	1.00012
19	0.389668	2.644705	1.069	1.00005
20	0.397406	2.550573	1.031	1.00001
25	0.404061	2.474373	1.000	1.00000
30	0.409350	2.412651	0.973	1.00000

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



DF	C-1	C-2	A-2/A-1	REDUCTION
60	0.054014	66.136303	14.8227	1.05751
1	0.094215	126.973301	7.8444	1.03928
2	0.126079	139.230197	5.490	1.02351
3	0.152259	149.733709	4.316	1.0162
4	0.174313	26.909103	3.617	1.01696
5	0.193249	17.854480	3.156	1.01366
6	0.209758	15.296464	2.838	1.01223
7	0.224329	10.639115	2.582	1.00938
8	0.237322	8.929631	2.392	1.00794
9	0.249006	7.750346	2.239	1.00679
10	0.269236	6.245116	2.008	1.00509
11	0.286218	5.333976	1.842	1.00390
12	0.300733	4.726951	1.715	1.00304
13	0.313321	4.294855	1.615	1.00240
14	0.324365	3.972075	1.534	1.00191
15	0.334692	3.72225	1.484	1.00110
16	0.345437	3.510159	1.428	1.00064
17	0.357831	3.339373	1.381	1.00036
18	0.368975	3.20133	1.345	1.00019
19	0.379331	3.09379	1.3098	1.00009
20	0.407470	2.9515696	1.060	1.00003
21	0.414432	2.453920	1.027	1.00001
22	0.420591	2.377609	1.000	1.00000

CONFIDENCE LEVEL=.999  
 SHORTEST UNBIASED CONFIDENCE INTERVAL



# APPENDIX B

## ILLUSTRATIONS

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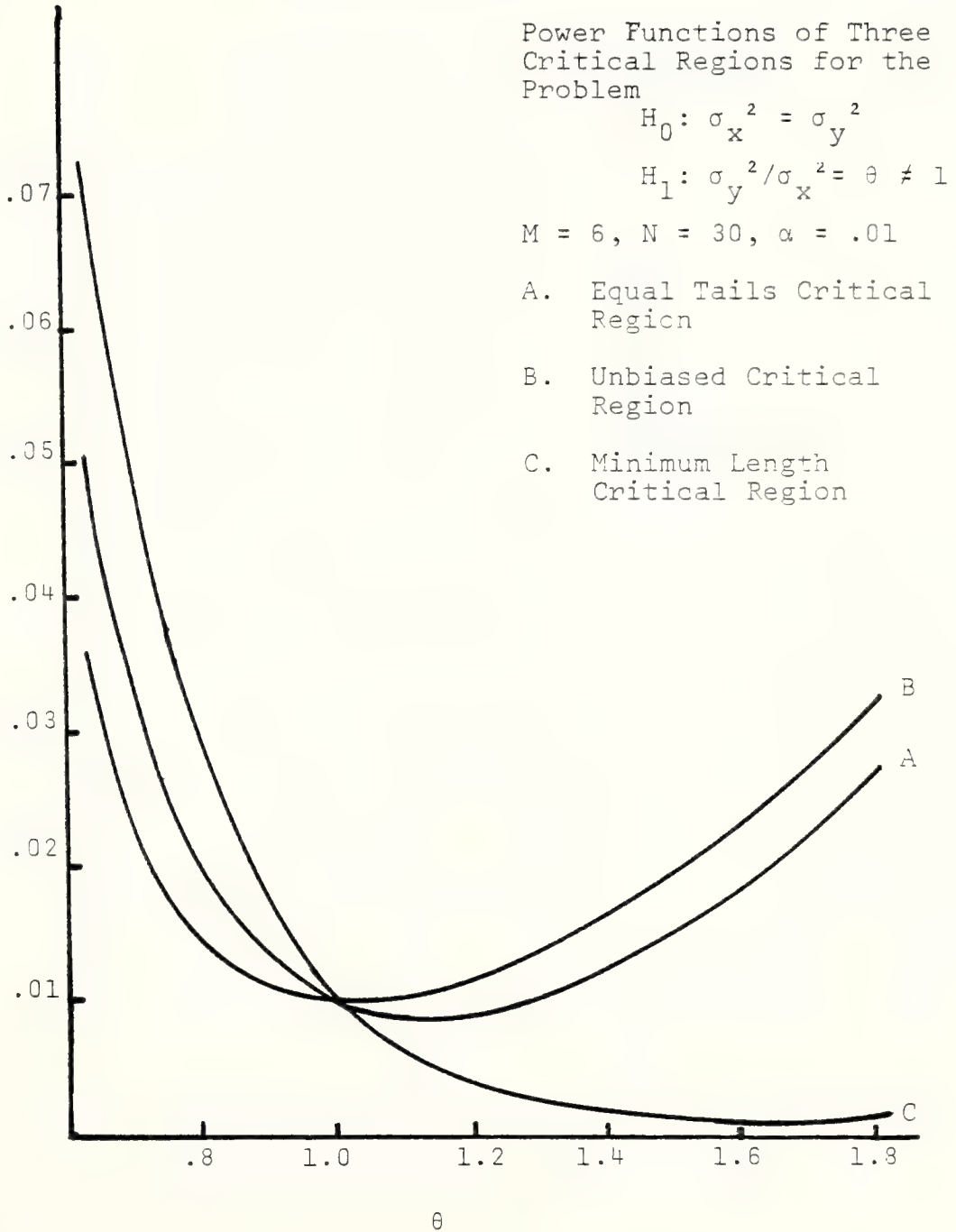
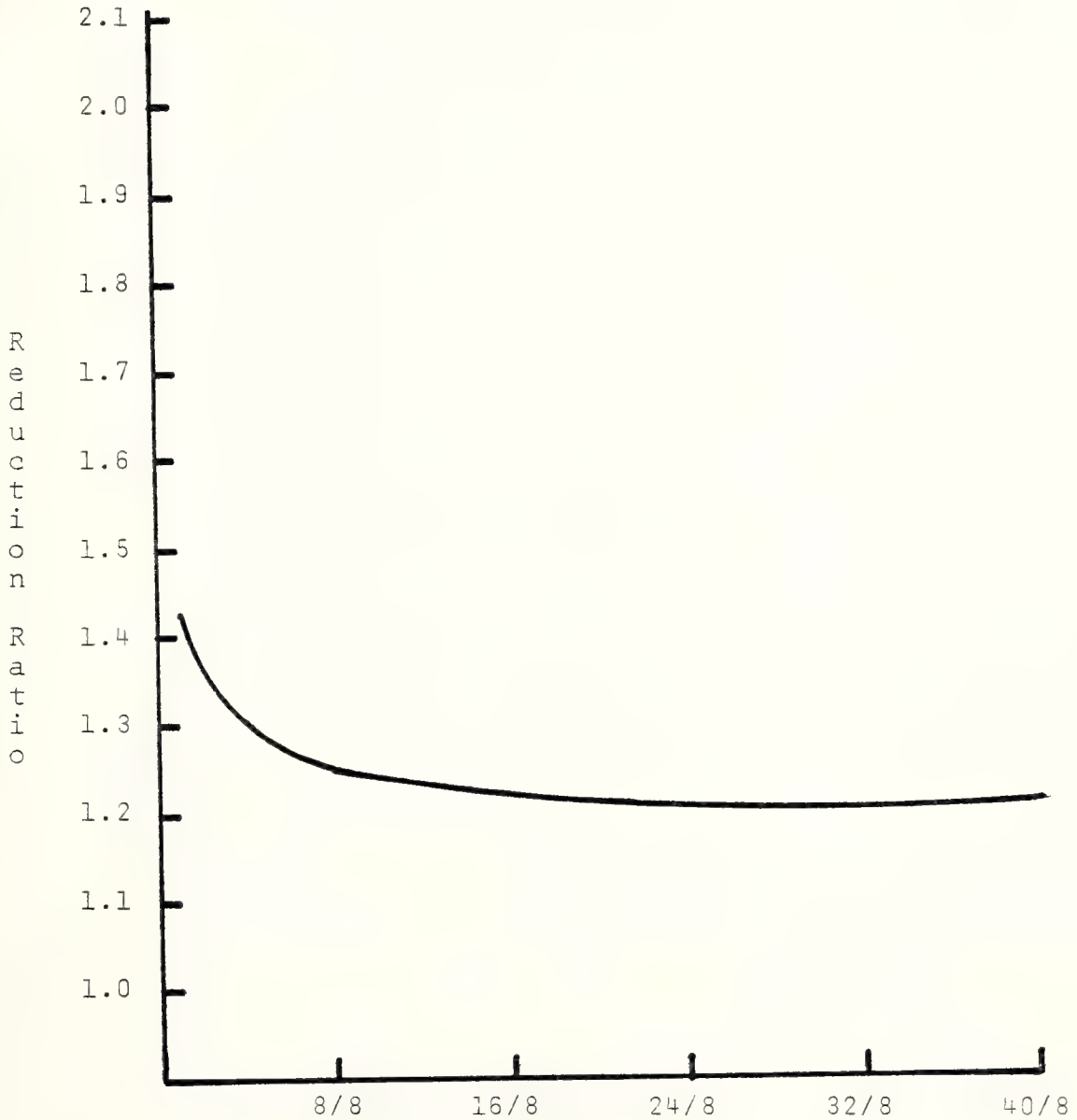


Figure 1





Reduction Ratio Resulting from  
Use of Minimum Length Interval  
for the Ratio of Variances in  
Lieu of Equal Tail Interval

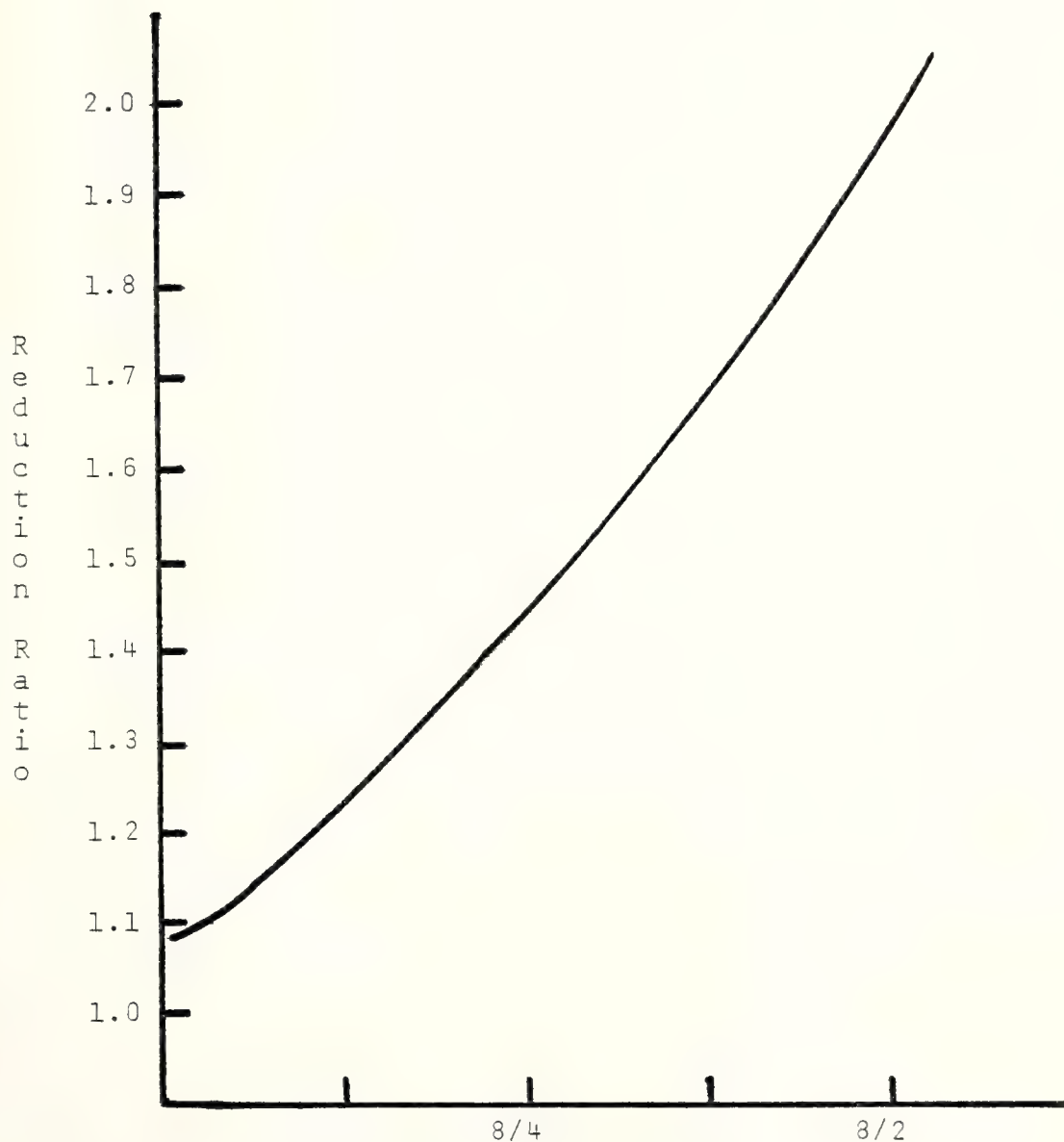


Ratio of Degrees of Freedom (M/N); N Fixed at 8;  $\alpha = .05$

Figure 2



Reduction Ratio Resulting from  
Use of Minimum Length Interval  
for the Ratio of Variances in  
Lieu of Equal Tail Interval



Ratio of Degrees of Freedom ( $M/N$ );  $M$  Fixed at 8;  $\alpha = .05$

Figure 3



Optimal Distribution of Tail Area for the Minimum Length Confidence Interval for the Ratio of Two Variances

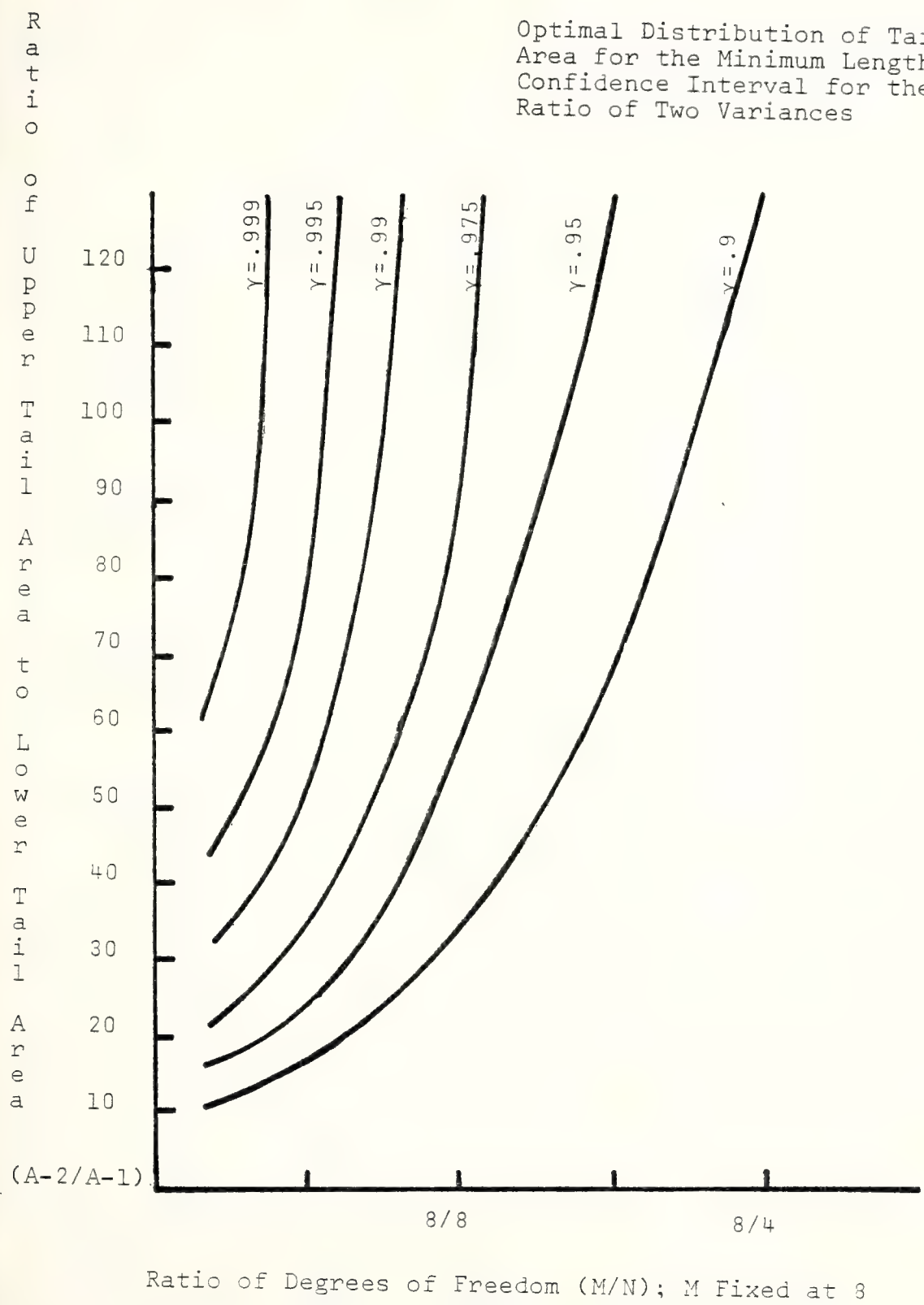
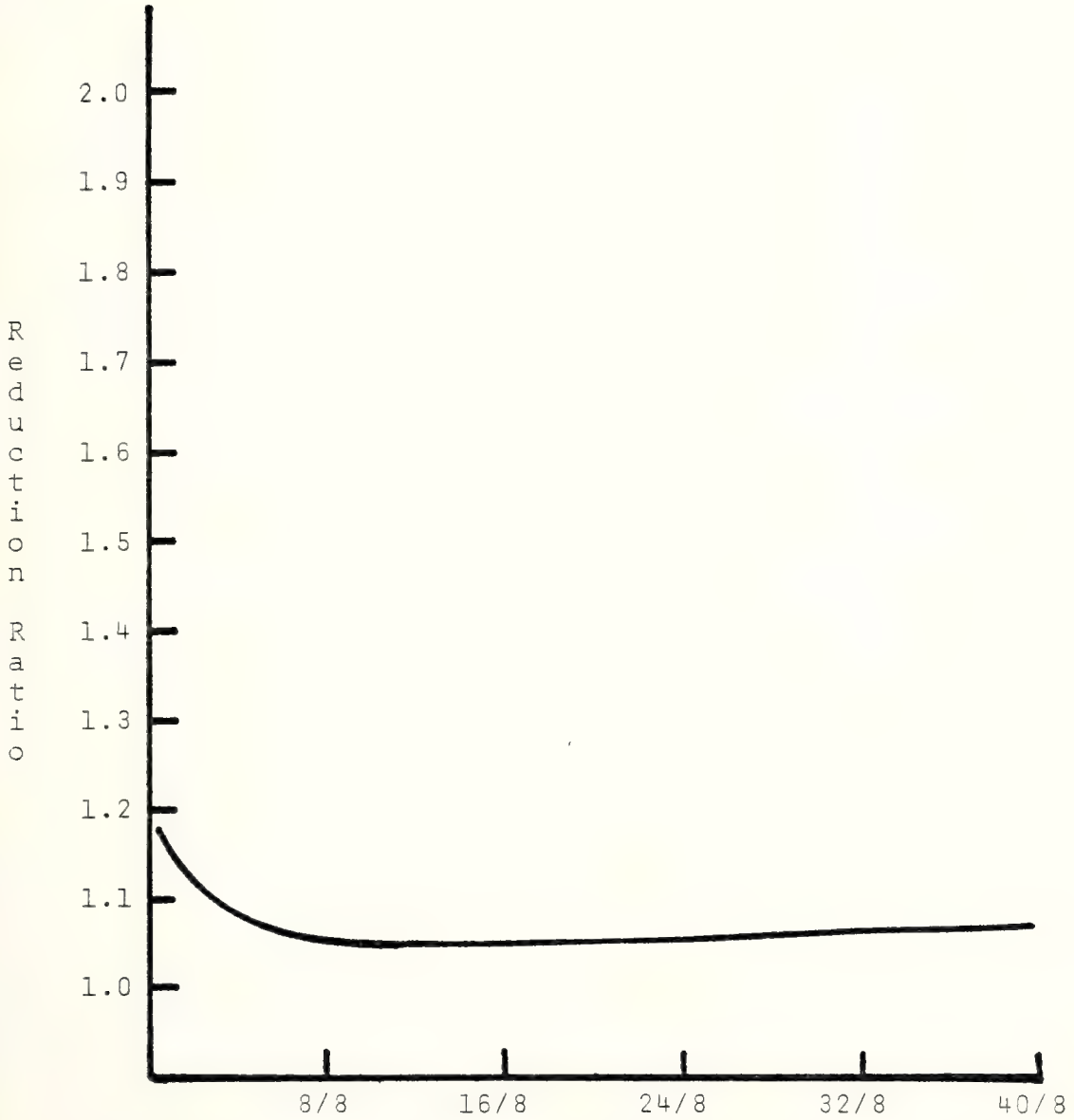


Figure 4



Reduction Ratio Resulting from  
Use of Minimum Length Interval  
for the Ratio of Standard  
Deviations in Lieu of Equal  
Tail Interval



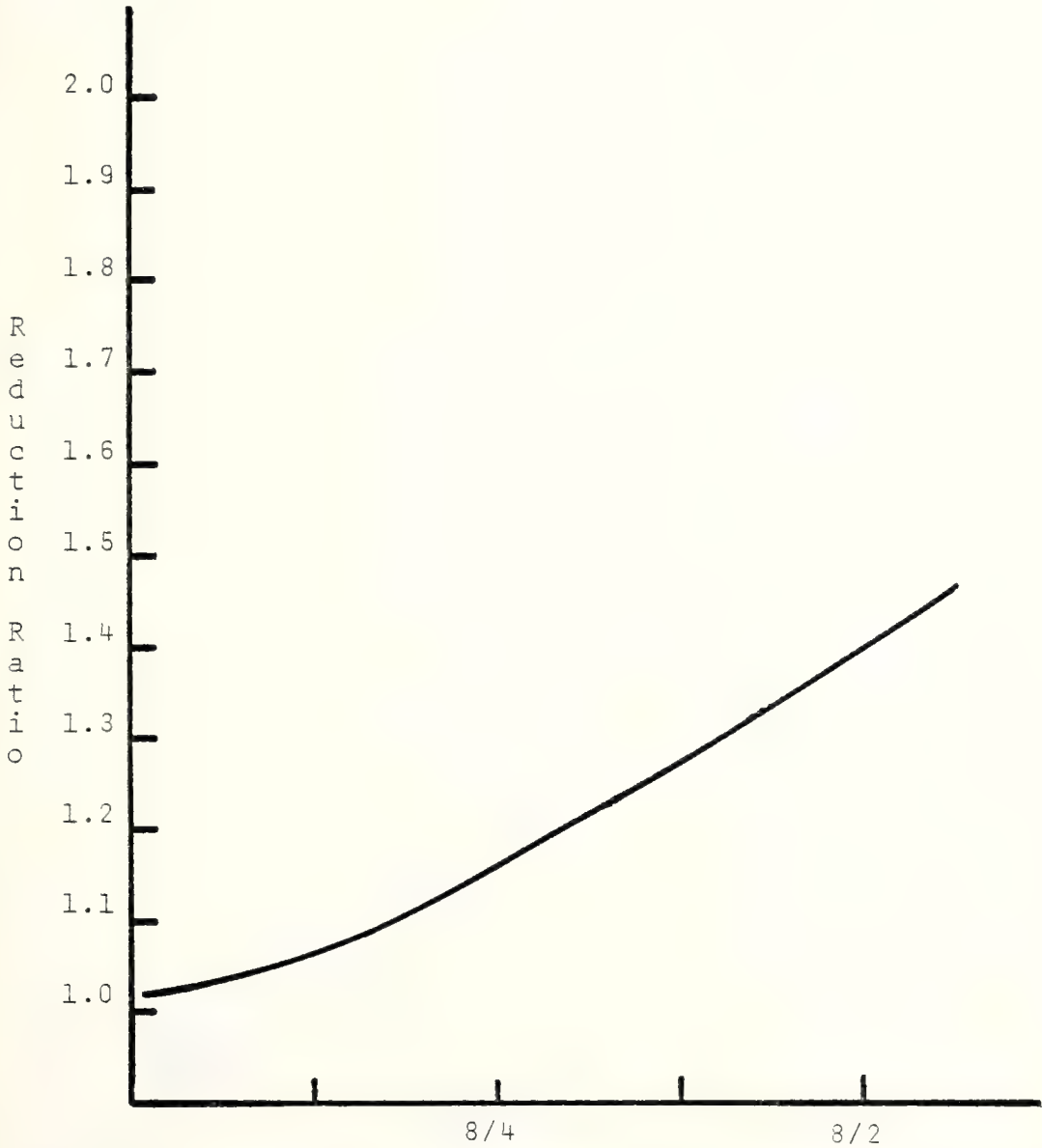
Ratio of Degrees of Freedom (M/N); N Fixed at 8;  $\alpha = .05$

Figure 5





Reduction Ratio Resulting from  
Use of Minimum Length Interval  
for Ratio of Standard Deviations  
in Lieu of Equal Tails

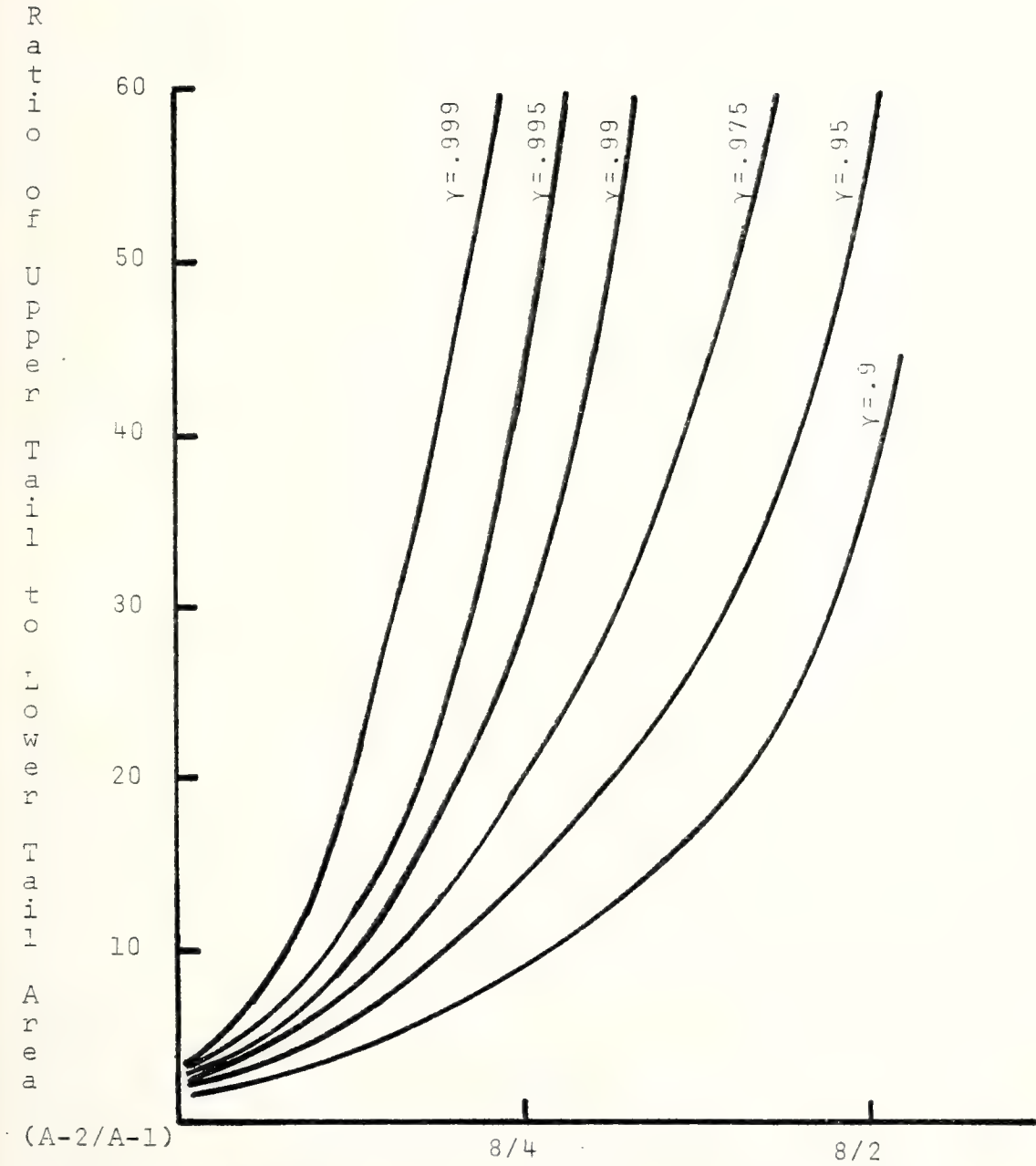


Ratio of Degrees of Freedom (M/N); M Fixed at 8;  $\alpha = .05$

Figure 6



Optimal Distribution of Tail  
Area for the Ratio of Two  
Standard Deviations



Ratio of Degrees of Freedom (M/N); M Fixed at 8

Figure 7



APPENDIX C  
MATHEMATICAL DERIVATIONS

This thesis solved three parameterizations of the same non-linear programming problem. They were

$$(1) \phi_1 = C2 - C1$$

$$\text{Subject to: } \int_{C1}^{C2} h_{M,N}(x)dx = \gamma$$

$$(2) \phi_2 = \sqrt{C2} - \sqrt{C1}$$

$$\text{Subject to: } \int_{C1}^{C2} h_{M,N}(x)dx = \gamma$$

$$(3) \phi_3 = \log \left[ \frac{C2}{C1} \right]$$

$$\text{Subject to: } \int_{C1}^{C2} h_{M,N}(x)dx = \gamma$$

After some study, it was found that each of these problems was unimodal and continuous over the range of a single, arbitrary decision variable,  $C1$ . Because of these properties, the problems could have been solved by either the golden section search scheme or the bisection search method. The published values in Appendix A were obtained as solutions from the bisection search method.





The bisection procedure used was as follows. An interval of the decision variable was suspected of containing the optimal value. In this thesis, the suspected interval was always  $(0, H_{M,N}^{-1}(1-\gamma))$ . The interval being searched was then split in half (bisected), and the sign of the derivative for the objective function was evaluated there. The derivatives of the three objective functions with respect to the decision variable  $C1$  were:

$$(1) \quad \frac{d\phi_1}{dC1} = \frac{\partial \phi_1}{\partial C2} \cdot \frac{dC2}{dC1} + \frac{\partial \phi_1}{\partial C1} \cdot \frac{dC1}{dC1}$$

$$= \frac{dC2}{dC1} - 1$$

$$(2) \quad \frac{d\phi_2}{dC1} = \frac{\partial \phi_2}{\partial C2} \cdot \frac{dC2}{dC1} + \frac{\partial \phi_2}{\partial C1} \cdot \frac{dC1}{dC1}$$

$$= \frac{1}{2} (C2)^{-\frac{1}{2}} \cdot \frac{dC2}{dC1} - \frac{1}{2} (C1)^{-\frac{1}{2}} \cdot 1$$

$$(3) \quad \frac{d\phi_3}{dC1} = \frac{\partial \phi_3}{\partial C2} \cdot \frac{dC2}{dC1} + \frac{\partial \phi_3}{\partial C1} \cdot \frac{dC1}{dC1}$$

$$= \frac{1}{C2} \cdot \frac{dC2}{dC1} - \frac{1}{C1} \cdot 1$$

Since  $\frac{dC1}{dC1}$  is the identity, the only remaining unknown in the derivations is  $\frac{dC2}{dC1}$ . This was then found by applying Leibniz' Rule and the Implicit Function Theorem to the constraint equation. The result was:



$$\int_{C1}^{C2} h_{M,N}(x) dx = \int_{C1}^{C2} K \frac{(x)^{\frac{M}{2}-1}}{[N+M \cdot x]^{\frac{M+N}{2}}} dx = \gamma$$

$$\text{and } \frac{dC2}{dC1} = \left[ \frac{C1}{C2} \right]^{\frac{M}{2}-1} \cdot \left[ \frac{N+M \cdot C2}{N+M \cdot C1} \right]^{\frac{M+N}{2}}$$

If, upon evaluation, the value of the appropriate derivative was positive, then the midpoint was chosen as the new upper bound on the search interval. Of course, if it was negative, this point became the lower bound on the search interval. This process was continued until the length of the search interval was less than a prescribed tolerance factor. For this thesis, this factor was  $10^{-8}$ . Once the length of the search interval was less than this, the midpoint of the interval remaining was selected as the solution to C1. Once the optimal value of C1 was fixed, the probability in the lower tail (i.e., the area under the F density curve between 0 and C1) was determined. Subtracting this probability from  $1-\gamma$  yielded the probability in the upper tail. Substituting this value into  $H_{N,M}^{-1}$  gave  $\frac{1}{C2}$  which, when inverted, resulted in the published value for C2.



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